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CATALOGUE

OF

BUCKNELL UNIVERSITY

1890-91.

THE FORTY-FIRST

ANNUAL CATALOGUE

OF THE

OFFICERS AND STUDENTS

OF

BUCKNELL UNIVERSITY,

LEWISBURG, PA.,

FOR THE YEAR 1890-91.

LEWISBURG:
PRINTED FOR THE UNIVERSITY.
1891.

Location.

The University is located at Lewisburg, near the geographical center of the State, on the West Branch of the Susquehanna River, in a valley famous for healthfulness and beauty. In addition to the natural advantages of the site, the founders of the Institution appreciated the quiet of an inland town for economical support and retirement in study, particularly as it was found that other corporations had so located "their respective colleges as to leave in the central and northern part of Pennsylvania, a region extending more than two hundred miles from East to West, and more than one hundred from North to South, wholly unoccupied by any literary institution above the grade of an ordinary academy." Since the founding of the University, the multiplication of railroads has rendered access easy to every part of the State.

Plan and Purpose of the University.

CORPORATE RIGHTS.

The University was incorporated, with full University privileges, by the Legislature of Pennsylvania in an act approved by the Executive on the fifth day of February, A. D. 1846. The management of the University is committed to a Board of Trustees, consisting of twenty-five members, or fewer, at the option of the Board. The Trustees are prohibited, for any cause, or under any pretext whatever, from encumbering by mortgage or otherwise the real estate or any other property of the Institution. It is required by the charter, that no religious sentiments are to be accounted a disability to hinder the election of an individual to any office among the teachers of the Institution, or to debar persons from attendance as pupils, or in any manner to abridge their privileges or immunities as students in any department of the University.

ENDOWMENT.

The Institution has productive funds amounting to over three hundred and fifty thousand dollars. The endowment funds, raised at various times, were increased, in 1881, to an even two hundred thousand dollars. Since that time William Bucknell has contributed to the general fund one hundred and fifteen thousand dollars, and for scholarships and prizes about twenty-five thousand dollars.

FORM OF BEQUEST.

To persons desiring to aid in increasing the efficiency of the schools in the work of preparing young men and young women for usefulness, the following form of bequest is recommended:

I give and bequeath to the Bucknell University at Lewisburg, Pa., the sum of . . . . . dollars for the general purpose of said school, according to the Act of Assembly incorporating the same.

ORGANIZATION.

The University aims to impart sound instruction in all non-professional studies. It comprises four Departments:

I. **The College** offers three courses of study, leading respectively to the degrees in Arts, Philosophy, and Science.

II. **The Institute** for young women has three courses of study: the Literary, the Classical and the Scientific, leading to diplomas, but not to degrees.

III. **The Academy** is designed to fit young men for college, either for the Classical, Philosophical or Scientific course.

IV. **The Institute of Music** has full courses in instrumental and vocal music, and grants diplomas to those who complete either of the specified courses.

These schools are under one corporation, have one President, who has general charge, with a Principal in more immediate charge of each of the three subordinate departments. All expenses are met from funds in the hands of a common treasurer.

V. **Keystone Academy, Mt. Pleasant Institute** and **Hall Institute** are under the same denominational control, but with distinct corporate existence, and are affiliated with the University. These schools have courses preparatory to College, and general courses of study.

The President of the University is Lecturer on Ethics in the several schools.

Board of Trustees.

CHAIRMAN, HARRY S. HOPPER, ESQ.,
28 South Third St., Philadelphia.

SECRETARY, REV. A. JUDSON ROWLAND, D.D.,
605 North Calhoun St., Baltimore, Md.

TREASURER, REV. DAVID P. LEAS, A.M.,
400 South Fortieth St., Philadelphia.

COL. CHARLES H. BANES,
REV. C. C. BITTING, D.D.,
HON. JAMES BUCHANAN,
*HON. WILLIAM BUCKNELL,
GEORGE CALLAGHAN, ESQ.,
REV. BENJAMIN GRIFFITH, D.D.,
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JAMES S. SWARTZ, ESQ.,
ALFRED TAYLOR, A.M., LL.B.,
REV. JOSEPH P. TUSTIN, A.M.,
REV. HENRY G. WESTON, D.D.,
HON. CHARLES S. WOLFE, A.M., LL.B.

*Deceased.

MEETINGS OF THE BOARD.

The annual meeting is held on the Tuesday of Commencement week, at Lewisburg, Pa.

The semi-annual meeting is held on the second Thursday of January, at 1420 Chestnut Street, Philadelphia, Pa.

Committees of the Board.

Committee on Instruction and Discipline:

REV. A. JUDSON ROWLAND, D.D., *Chairman.*

REV. BENJAMIN GRIFFITH, D.D., HON. CHARLES S. WOLFE, A.M., LL.B.,
REV. HENRY G. WESTON, D.D., REV. JOSEPH P. TUSTIN, A.M.,
REV. LEROY STEPHENS, D.D., REV. C. C. BITTING, D.D.

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REV. DAVID P. LEAS, A.M., JAMES H. LITTLE, ESQ.

Committee on Buildings and Grounds:

HON. CHARLES S. WOLFE, A.M., LL.B., *Chairman,*

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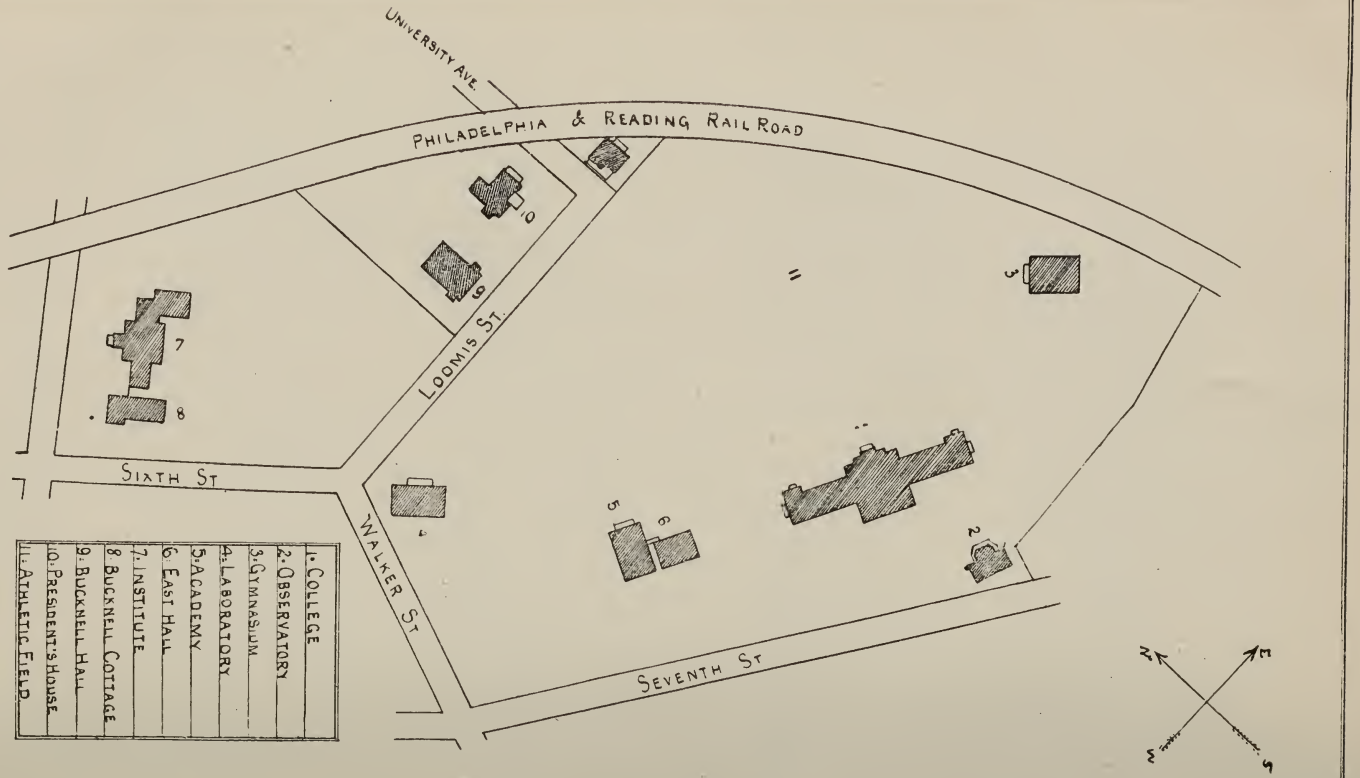
THOMAS J. HOSKINSON, D. BRIGHT MILLER, A.M.,
CRAIG LIPPINCOTT, PRES. JOHN H. HARRIS, PH.D.

Committee on Publication:

REV. GEORGE M. SPRATT, D.D., *Chairman,*

REV. JOSEPH P. TUSTIN, A.M., HON. CHARLES S. WOLFE, A.M., LL.B.
REV. DAVID P. LEAS, A.M., HON. JAMES BUCHANAN.


UNIVERSITY AVE.
PHILADELPHIA & READING RAIL ROAD
LOOMIS ST.
SIXTH ST.
WALKER ST.
SEVENTH ST.
1. College
2. Observatory
3. Gymnasium
4. Laboratory
5. Academy
6. East Hall
7. Institute
8. Bucknell Cottage
9. Bucknell Hall
10. President's House
11. Athletic Field
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The University Property.

I. THE COLLEGE.

The College building is situated on a hill which rises one hundred feet above the Susquehanna River, and overlooks scenery of unsurpassed beauty. It has a facade of three hundred and twenty feet. The building was designed by Thomas U. Walter, LL. D., architect of the dome and wings of the Capitol, at Washington, D. C., and is in the Grecian style, combining dignity with simplicity. The central portion is eighty feet square, and is strengthened in front by four massive columns. Within, on the first floor are five commodious recitation rooms, respectively for English Literature, Greek, Latin, Mathematics and Modern Languages.

On the second floor are the Halls of Theta Alpha and Euepia Literary Societies, the Library-room, Reading-room and Museum of Natural History.

In the third story is Commencement Hall, with a seating capacity of fifteen hundred.

The wings on the eastern and western side, respectively, of the Main Building, are each one hundred and twenty feet in length and four stories high, and are used for students' rooms. The Registrar's office is in the East Wing.

Several thousand dollars have been expended recently in improving the College building.

II. BUCKNELL HALL.

Bucknell Hall is used as a chapel in which all the students meet every morning for worship. These exercises give unity to the life of the University, and base the unity upon religious principle. The time is devoted wholly to worship, consisting of singing, reading of Scripture and prayer ; and matters of discipline are attended to elsewhere.

III. THE BUCKNELL OBSERVATORY.

The Observatory was erected in 1887, and is designed for the use of students in Practical Astronomy.

The entire equipment is new and represents the latest improvements in this class of instruments. It consists of a Clark Equatorial Telescope of 10 inches aperture and 12½ feet focal length, furnished with a fine position Micrometer and all the usual accessories ; a Spectroscope, with prism and grating by Brashear, the grating having 14,500 lines to the inch ; a 3-inch Prismatic Transit with a 13 wire movable micrometer, by T. Ertel & Sons ; a Fauth Chronograph with Bond spring governor ; a Waldo Precision Clock for sidereal time, with mercurial compensation, break circuiting apparatus, Daniell's battery, and telegraph sounders ; a Seth

Thomas Clock for solar time ; a Sextant ; a 3-inch Altitude Azimuth Refractor ; a set of Meteorological instruments ; Celestial globes and maps, and standard works on Theoretic and Practical Astronomy.

IV. THE BUCKNELL LABORATORY.

The Laboratory was erected in 1890, and is forty-three feet in width and eighty-six feet in length, and has two stories above the basement. In the first story, which has a clear height of fifteen feet, are a lecture-room, with a seating capacity for one hundred and twenty-five students, and a large working room, in which are tables for individual work in Chemical Analysis ; the second floor contains a lecture-room for the class in Physics, and one room each for Quantitative and Qualitative Analysis ; the basement has a dark room for Photometry, a room for Applied Chemistry, another for Electricity, and a Fire-proof room.

V. THE TUSTIN GYMNASIUM.

The basement of the Gymnasium is built of stone, and contains rooms for students' lockers, wardrobes and dressing-rooms, shower-baths, furnaces and coal. The second story is built of brick, rising twenty-two feet from the main floor to the square and is open to the roof. At the height of twelve feet a running track gallery, six feet wide, surrounds the room.

Near the Gymnasium is the Athletic Field, graded at a cost of $3,400 by ex-President Loomis, who, with his son, Professor Loomis, contributed the entire amount.

VI THE ACADEMY.

The Academy building, situated on College Hill, is fifty feet in width by eighty feet in length and three stories high ; on the first floor is a commodious dining-room thirty feet by thirty-six feet ; two recitation-rooms, a reception-room and the Principal's office ; on the second floor are suites of rooms for the Principal and his family and for the Matron, and a society hall ; the third floor is occupied by students' rooms. These are twenty feet by twelve feet, and fourteen feet high. Over three thousand dollars have been recently expended in the improvement of this building. Borough water and steam heat have recently been introduced.

VII. THE EAST HALL

This is the Bucknell Cottage for young men, and is contiguous to the Academy building and connected with it by a covered passage way. It is a brick building, three stories high, sixty feet in length and forty feet in width and is finished in natural wood. The building contains a recitation-room, teachers' apartments, and rooms for thirty-seven students. The rooms have high ceilings, large double windows with inside shutters, two commodious closets each, and are warmed by steam radiators.

VIII. THE INSTITUTE.

The campus of the Ladies' Institute is separate from that of the College, and comprises six acres.

The Main Building contains, on the first floor, an office for the Principal and the Registrar, a reception-room, the office of the Director of Music, five music-rooms, two recitation-rooms and a dining hall ; on the second floor, a school-room and a parlor, elegantly furnished ; on the third floor, a library-room, teachers' apartments and students' rooms.

The South Hall, erected in 1869, is devoted to students' rooms, except the third story, which is used as a gymnasium.

IX. THE BUCKNELL COTTAGE.

This building stands to the southwest of the Main Building, being connected with it by an enclosed passage-way. It is built of brick in the Queen Anne style of architecture, and has dimensions of one hundred feet by thirty-three feet. The interior is finished in natural wood, and is equipped, in matters of light, heat and ventilation, with the most modern improvements.

The portion allotted to students' rooms affords accommodations for forty occupants. These rooms are in suites on the general plan of a center parlor with bedrooms and closets on either side. The most spacious room of the building and its chief attraction is the **Studio**, with such adjustments for the admission of light and supply of unencumbered wall surfaces as renders it precisely adapted for the execution and display of art products.

All the Institute buildings are supplied with hot and cold water. Steam pipes and radiators warm every room. The drainage is faultless; stagnant water and dampness are impossible. The constant good health of the students bear testimony to the perfect sanitary condition of this pleasant home school.

X. THE PRESIDENT'S HOUSE.

The Corporation also owns a house for the use of the President of the University, which has recently been enlarged and improved at a cost of six thousand dollars.

THE COLLEGE.

The Faculty and Other Officers.

JOHN HOWARD HARRIS, PH.D., PRESIDENT,
AND PROFESSOR OF PSYCHOLOGY AND ETHICS.

FREEMAN LOOMIS, PH.D.,
PROFESSOR OF MODERN LANGUAGES AND LITERATURE, AND HISTORY.

GEORGE G. GROFF, M.D., LL.D.,
PROFESSOR OF ORGANIC SCIENCES.

WILLIAM CYRUS BARTOL, A.M.,
PROFESSOR OF MATHEMATICS AND ASTRONOMY.

FRANK ERNEST ROCKWOOD, A.M.,
PROFESSOR OF THE LATIN LANGUAGE AND LITERATURE.

WILLIAM GUNDY OWENS, A.M.,
PROFESSOR OF PHYSICS AND CHEMISTRY.

ENOCH PERRINE, A.M.,
JOHN P. CROZER PROFESSOR OF RHETORIC AND ENGLISH LITERATURE,
AND SECRETARY.

CLARENCE FASSETT CASTLE, PH.D.,
NEW JERSEY PROFESSOR OF THE GREEK LANGUAGE AND LITERATURE.

FREEMAN LOOMIS, PH.D.,
LIBRARIAN.

A. CARLTON GROOM, A.B.,
INSTRUCTOR IN ELOCUTION.

LINCOLN HULLEY, A.B.,
INSTRUCTOR IN ORATORY.

WILLIAM CHRISTIAN GRETZINGER, PH.B.,
REGISTRAR OF THE UNIVERSITY, AND SUPERINTENDENT OF GROUNDS AND BUILDINGS.

Directory of the Alumni.

THE GENERAL ALUMNI ASSOCIATION.

President,
ALFRED TAYLOR, LL.B.

Vice-Presidents,
REV. JOHN HUMPSTONE, D.D., and REV. H. M. WOLF, JR.

Secretary and Treasurer,
PROF. WM. G. OWENS, A.M., Lewisburg.

Board of Managers,
The OFFICERS of the Association, and A. A. LEISER, A.M.; GEORGE S. MATLACK, B.S.; ALFRED HAYES, A.M.; WILLIAM R. FOLLMER, A.M.; JOHN H. WINGERT, B.S.

Orator for 1891,
CHAUNCEY B. RIPLEY, LL.D.

Poet for 1891,
REV. S. B. MEESER, B.S.

Alternate Orator,
HON. SIMON P. WOLVERTON.

Alternate Poet,
REV. W. H. SHERMER, A.M.

THE BUCKNELL UNIVERSITY CLUB OF PHILADELPHIA.

President, PRIN. G. M. PHILIPS, PH.D.
Vice-President, REV. J. H. CHAMBERS, A.M.
Secretary, REV. H. B. GARNER, A.M., Berwyn.
Treasurer, E. L. TUSTIN, A.M.
Chairman of Executive Committee, J. H. GRATER, A.M.

THE NEW YORK ALUMNI CLUB.

President, CHAUNCEY B. RIPLEY, LL.D.
Vice-Presidents, REV. T. A. K. GESSLER, D.D., and ALFRED TAYLOR, LL.
Secretary, REV. W. R. MAUL, PH.B., Erastina, Staten Island, N. Y.
Treasurer, DAVID E. RUE, A.M.
Executive Committee: T. R. JONES, LL.B.; REV. S. B. MEESER, B.S.; A. W. HAND, A.M.

The Registrar of the University will esteem it a favor if any alumnus who changes his residence will give notice of his new address. He will also be grateful for any information that will assist in making or keeping the directory of the alumni complete, or serve for future editions of the triennial catalogue. Data are especially solicited regarding the more recent graduates.

Students.

THE SENIOR CLASS.

NAME.	RESIDENCE.	ROOM.
RALPH CHARLES HENRY CATTERALL,	*Port Allegany.*	No. 15, West Wing.
CHARLES CAMPBELL,	*Sunbury.*	No. 13, East Wing.
ROBERT BURR DUNMIRE,	*Richardsville.*	No. 21, East Wing.
HERBERT COOPER DONAT,	*Davisville.*	No. 30, East Wing.
MARGARET ORWIG EVANS,	*Lewisburg.*	Mr. T. G. Evans.
GEORGE ELMER FISHER,	*Salem.*	No. 6, East Wing.
JOHN THOMAS HYATT,	*Lewisburg.*	Dr. P. F. Hyatt.
HARVEY WILSON DOUGLASS KIRKENDALL,	*Berwick.*	No. 27, East Wing.
JACOB HENRY MINICK,	*Orrstown.*	No. 21, East Wing.
ABRAHAM LINCOLN MOORE,	*Haddonfield, N. J.*	No. 28, East Wing.
FOSTER HENRY STARKEY,	*Mansfield.*	No. 7, East Wing.
ALMON ODELL STEVENS,	*Hop Bottom.*	No. 11, East Wing.
PAUL TUSTIN,	*Bloomsburg.*	No. 11, East Wing.

THE JUNIOR CLASS.

NAME.	RESIDENCE.	ROOM.
CHARLES WILLIAM ALLEN,	*Scranton.*	No. 24, East Wing.
ANNIE CATHERINE CARLISLE,	*Williamsport.*	Institute.
ELTON SMITH CORSON,	*Bexley's Point, N. J.*	No. 32, East Wing.
HOMER DOWLIN,	*East Downingtown.*	No. 22, East Wing.
CHARLES EDWARD FOLMER,	*Shenandoah.*	No. 22, East Wing.
WARREN LESLIE KAUFFMAN,	*Paxton.*	No. 8, East Wing.
CHARLES KOONCE,	*Lewisburg.*	No. 28, East Wing.
CLAUDIUS GRIMSLEY LANGFORD,	*Weston, W. Va.*	No. 26, East Wing.
WILLARD ARTHUR LANING,	*Everett.*	No. 14, East Wing.
WILLIAM CLAYTON NOLL,	*Lewisburg.*	Mr. J. R. Noll.
JAMES MacLEAN PATERSON,	*Blairsville.*	No. 14, East Wing.
LLEWELLYN PHILLIPS,	*Plymouth.*	No. 13, West Wing.
WALTER BODINE PIMM,	*Flemington, N. J.*	No. 23, East Wing.
CHARLES FISHER RINKER,	*Eaton.*	No. 19, East Wing.
CHARLES GRANT SHAFFER,	*Lewisburg.*	No. 5, East Wing.
GEORGE SHORKLEY,	*Lewisburg.*	Mr. E. Shorkley.
GEORGE WASHINGTON WAGENSELLER,	*Selinsgrove.*	No. 8, East Wing.
ANDREW ROBERT ELMER WYANT,	*Adrian.*	No. 20, East Wing.

THE SOPHOMORE CLASS.

NAME.	RESIDENCE.	ROOM.
JOHN BRICE CRESSINGER,	*Sunbury.*	No. 7, West Wing.
HARLAND ALEXANDER DENNY,	*South Gibson.*	No. 29, East Wing.
JOHN HAMMOND FORESMAN,	*Williamsport.*	No. 5, East Wing.
ARTHUR FREMONT GARDNER,	*Factoryville.*	No. 31, East Wing.
CHARLES ALEXANDER GUNDY,	*Lewisburg.*	Mr. J. A. Gundy.
EPHRAIM M. HEIM,	*Warrensville.*	No. 7, East Wing.
ELKANAH HULLEY,	*Chester.*	No. 31, East Wing.
EDWARD CLAYTON PAULING,	*Elimsport.*	No. 32, East Wing.
MARY FLORENCE PANNEBAKER,	*Lewistown.*	Institute.
EUGENIO KINCAID THOMAS,	*Scranton.*	No. 30, East Wing.
JOHN E. WILLIAMS,	*South Gibson.*	No. 29, East Wing.
JOHN URBAN WAGNER,	*Scranton.*	No. 24, East Wing.

THE FRESHMAN CLASS.

NAME.	RESIDENCE.	ROOM.
ANDREW FREEMAN ANDERSON,	*Portersville.*	No. 30, West Wing.
BENJAMIN ALSUP BALDWIN,	*Litchfield.*	No. 32, West Wing.
MARY L. BARTOL,	*Lewisburg.*	Prof. W. C. Bartol.
ELIZA BELL,	*Sabbath Rest.*	Institute.
EVERETT ADAMS BUSH,	*Coudersport.*	No. 12, West Wing.
PERRY SYLVESTER CALVIN,	*Transfer.*	No. 30, West Wing.

NAME.	RESIDENCE.	ROOM.
MARY CASTLE,	*Alexandria, O.*	Prof. C. F. Castle, PH.D.
NELLIE WILSON CONARD,	*Philadelphia.*	Institute.
ROBERT BAILEY DAVIDSON,	*Paterson, N. J.*	No. 23, East Wing.
RAYMOND JOHN DAVIS,	*Jenkintown.*	No. 32½, East Wing.
MARGARET ADELE DICE,	*Mt. Pleasant.*	Institute.
CORNELIUS ARTHUR EMMONS,	*Milton.*	No 15, East Wing.
HARVEY LEARN FASSETT,	*Scottsville.*	No. 19, East Wing.
ALBERT EDWARD FINN,	*Philadelphia.*	No. 29, West Wing.
THOMAS STRADLING FRETZ,	*Gardenville.*	No. 5, West Wing.
CARRIE LOUISA GEARY,	*Carbondale.*	Institute.
JOHN WILLIAMS GRIFFITH,	*Nanticoke.*	No. 28, West Wing.
HOWARD POLLOCK GUNDY,	*Lewisburg.*	Mr. W. L. Gundy.
GRACE GUTHRIE,	*Pottsville.*	Institute.
HERBERT LINTON HALLOWELL,	*Philadelphia*	No. 7, West Wing.
MARY BELLE HARRIS,	*Lewisburg.*	President Harris.
THEODORE HEYSHAM,	*Norristown.*	No. 4, East Wing.
ROBERT AUTEN HOFFA,	*Lewisburg.*	Mr. Wm. McFadden.
GEORGE CASH HORTER,	*Philadelphia.*	No. 4, East Wing.
JAMES ROWLAND HUGHES,	*Scranton.*	No. 18, East Wing.
JOHN WARDELL IVINS,	*Red Bank, N. J.*	No. 3, East Wing.
GILBERT FENIMORE KENDALL,	*Lewisburg.*	Rev. J. L. Kendall.
JAMES MEEKER KENDALL,	*Lewisburg.*	Rev. J. L. Kendall.
JOSEPH MARTIN KIEFER,	*Tunkhannock.*	No. 13, East Wing.
HARRY HARTMAN KINNEY,	*Sunbury.*	Mr. Martin Kinney.
SUSIE IDA KURTZ,	*Williamsport.*	Institute.

NAME.	RESIDENCE.	ROOM.
ALONZO CORODYN LATHROP,	*Camden, Del.*	No. 4, West Wing.
CARRIE VANDERSLICE LLOYD,	*Phœnixville.*	Institute.
LOIS WINIFRED LYMAN,	*Coudersport.*	Institute.
JAMES MacINNIS,	*Philadelphia.*	No. 12, East Wing.
CHARLES FRANKLIN McMANN,	*Philadelphia.*	No 12, East Wing.
WARREN STANLEY MARTS,	*Dividing Creek, N. J.*	No. 25, East Wing.
EDWIN MAXEY,	*Royal.*	No. 17, East Wing.
GILBERT WARREN MAYNARD,	*Harford.*	No. 18, East Wing.
LEROY MERRIMAN,	*Lewisburg.*	Rev. J. R. Merriman.
CHARLES JULIUS MOON,	*Elkland.*	No. 16, East Wing.
EDWIN MORGAN,	*East Stroudsburg.*	No. 24½, East Wing.
THOMAS SEABORN MORGAN,	*Danville.*	No. 16, East Wing.
HANNAH AGNES NYE,	*Carbondale.*	Institute.
LEVI LORE RIGGIN,	*Port Norris, N. J.*	No. 25, East Wing.
FREDERICK OTTO SCHUB,	*Greenville.*	No. 19, West Wing.
HERBERT SPENCER SCHUYLER,	*Turbotville.*	No. 14, West Wing.
WILLIAM BOYD SHEDDAN,	*Pottsgrove.*	No. 6, East Wing.
FRANKLIN REESE STRAYER,	*Lewistown.*	Prof. G. G. Groff, M.D.
HARVEY FETTERHOFF SMITH,	*Harrisburg.*	No 7½, West Wing.
RALPH RANSALIER SNOW,	*Franklin.*	No. 27, East Wing.
WILSON METTLER VASTINE,	*Riverside.*	No. 16½, East Wing.
GEORGE HENRY WAID,	*Reading.*	No. 12, West Wing.
JESSIE JUNE WHEELER,	*Erie.*	Institute.
CHARLES WESLEY WILLIAMS,	*Philadelphia.*	No. 12, West Wing.
JOSEPH ROBERTS WOOD,	*Norristown.*	No. 6, West Wing.

NAME.	RESIDENCE.	ROOM.
CHARLES DALE WOLFE,	*Lewisburg.*	No. 3, East Wing.
ADAM MARTIN WYANT,	*Adrian.*	No. 20, East Wing.
ALBERT HARNISH WYNKOOP,	*Philadelphia.*	No. 6, West Wing.

PURSUING SELECT STUDIES.

NAME.	RESIDENCE.	ROOM.
ROBERT JANISCH HOLMES,	*Pittston.*	No. 25, East Wing.

SUMMARY:

The Senior Class	13
The Junior Class	18
The Sophomore Class	12
The Freshman Class	59
Pursuing Select Studies	1
Total	103
In other Departments	223
Total in all Departments	326

Admission.

TO FRESHMAN STANDING.

General Requirements.—Examinations for admission to the Freshman Class will be held on Monday of Commencement week, June 22d. Candidates will assemble in Bucknell Hall at 8.30 A.M., and come supplied with pencil and paper.

Similar examinations are also held on the day preceding the opening of each term. In special cases, candidates may be examined and admitted at other times in the year.

Candidates are expected to come well prepared in the English branches named below. They will be as strictly examined in these studies as in the Ancient Languages and Mathematics.

There must be furnished to the President by the candidate satisfactory testimonials of good moral character, and, if he come from another College, a certificate of honorable dismission must be presented.

The required age for admission to the Freshman Class is fifteen years.

II. Particular Requirements.—They are as follows for the respective Courses:

I. THE CLASSICAL COURSE.

To enter the Classical Course, the student must sustain an examination in :—

ENGLISH.

1. Writing from dictation.
2. English Grammar.
3. Elements of Rhetoric—Invention, Style and Punctuation.
4. A brief composition upon a subject assigned at the time of the examination. For the year 1891, the subject will be taken from one of the following:

Shakespeare's Othello, George Eliot's Adam Bede, Macaulay's Essay on Lord Clive, and Webster's First Bunker Hill Oration.

MATHEMATICS.

1. Arithmetic, including the Metric System.
2. Algebra, including Quadratic Equations. The requirements in this study are intended to include the treatment of Radicals, and will be most nearly met, by the use of Wells' University Algebra.
3. Plane Geometry—Wentworth.

LATIN.

1. Latin Grammar—Allen and Greenough's, or Harkness'.
2. Daniell's Latin Prose Composition.
3. Four books of Cæsar's Commentaries.
4. Six Orations of Cicero.
5. Six books of Vergil's Æneid.

GREEK.

1. Greek Grammar—Hadley and Allen's, or Goodwin's.
2. Jones' Greek Prose Composition—20 Lessons.
3. Greek Reader.
4. Four books of Xenophon's Anabasis.
5. Three books of Homer's Iliad.

HISTORY.

1. History of Rome.
2. History of Greece.
3. Elements of United States History.

SCIENCE.

1. Geography—Descriptive, Political and Physical.
2. The student is recommended to read some elementary work on Physics and Physiology, also Morse's First Book in Zoölogy, Gray's How Plants Grow, and Dana's Geological Story Briefly Told. This reading should be done before entering upon the studies of the Sophomore Year. The necessary books can be obtained in the University Library.

In any of the subjects of examination, satisfactory equivalents will be accepted instead of the text-books named.

II. THE PHILOSOPHICAL COURSE.

I. THE LATIN DIVISION.—To enter the Latin Division of the Philosophical Course, the candidate must sustain an examination in the above named studies, except Greek, and in Elementary Physics and Physiology.

II. THE GREEK DIVISION.—To enter the Greek Division of the Philosophical Course the candidate must sustain an examination in the above named studies except Cicero and Vergil and in Elementary Physics and Physiology.

III. THE SCIENTIFIC COURSE.

To enter the Scientific Course, the candidate must sustain examination in English Grammar, Elements of Rhetoric, English Composition, Arithmetic, including the Metric System, Algebra, through Quadratic Equations and Plane Geometry; Latin Grammar, Latin Composition (Daniell's Part I., or an equivalent), Cæsar's Commentaries, Four Books; Elementary Physics, Physiology and Hygiene, and Botany; Geography, Mathematical, Political and Physical; History of the United States, General History and Civil Government.

CONDITIONAL ADMISSION.

A candidate failing to pass in one or more of the subjects required for admission may, at the discretion of the Faculty, be admitted to his class conditionally, to make up his deficiencies by extra study. When they are made up, he will be received into full standing in his class.

SPECIAL STUDENTS.

Young men who do not desire to take a full regular course can enter and select special shorter courses, with the sanction of the Faculty; but in all cases satisfactory examinations must be passed upon the subjects required for admission to the Freshman Class of the course from which they intend to select.

Students who have completed a course of study in preparatory schools of high grade may be admitted upon the certificate of the Principal of the school from which they come. Blank forms may be obtained by addressing the Registrar.

Graduates from Bucknell Academy in the Classical Course, or in the Scientific Course, will be admitted to the corresponding course in College upon the certificate of the Principal of the Academy.

TO ADVANCED STANDING.

I. General Requirements.—A proportionate increase of age is requisite for admission to advanced classes, over that required for admission to Freshman standing. Other general requirements are the same as for admission to the Freshman Class.

II. Particular Requirements.—Candidates for admisston to advanced classes are examined both as for admission to Freshman standing, and also in the studies that have been pursued by the class which they desire to enter.

LOCAL EXAMINATION FOR ADMISSION.

Arrangements have been made for conducting entrance examinations at Philadelphia, Pittsburg, Harrisburg and Scranton. Those intending to present themselves for examination at either of these places should inform the President of the University of their intention, and the necessary information as to details will be furnished.

These examinations will be held Friday, June 19th, 1891.

Courses of Study.

The following Courses of Study may be pursued in the College :

I. **The Classical Course** extends through four years, and aims to furnish a liberal education in the classics, the sciences, the arts, and literature. It comprises, substantially, the studies of the established college curriculum, with the addition of such branches as modern life seems to demand. The studies in the Freshman and Sophomore years are all required ; in the Junior and Senior years two studies each term are required, and an elective is permitted from three others. Students who have satisfactorily pursued this course are admitted to the degree of Bachelor of Arts.

II. **The Philosophical Course**, with Latin or Greek, in each of its two divisions, also extends through four years, and aims to furnish a thorough training in advanced studies to those who desire to pursue but one of the Ancient Languages. This course contains five terms of such language study, be it of Latin or Greek, most of the other studies of the Classical Course, with some addition of Scientific subjects. Students pursuing this course, recite, as far as possible, with classical students. Those who have satisfactorily completed the studies of the course are admitted to the degree of Bachelor of Philosophy.

III. **The Scientific Course** extends through four years and is substantially the same as the Philosophical Course, with the substitution of additional Mathematical and Scientific studies for Latin and Greek. Those who have completed the course are admitted to the degree of Bachelor of Science.

In the selection of optional studies in the above courses, the choice must be made with the approbation of the Faculty.

IV. **The Eclectic Course** is not limited to any definite time, and does not lead to any degree. If is designed to furnish advanced instruction in literature, science, and the arts to students who do not intend to pursue a regular course of study, but desire to select certain branches. The College will furnish special students with such studies as they may elect only at the times announced in the Curricula, found on another page. Every student is required to select at least three studies from those taught during any given term, and these are to be pursued at the same time. Students will not be allowed to pursue studies for which they are not fully qualified by their previous training. A certificate will be given by the President at any time, stating what studies have been completed and the grade attained in them. This certificate will be accepted as equivalent to an examination, provided the holder, at any time, prefers to be transferred to either of the regular courses.

Curricula.

I. CLASSICAL COURSE.

Freshman Year.

I. Term—	Geometry and Conic Sections,	Practical Ethics,
	Cicero de Senectute et de Am.,	Hygiene,
	Lysias' Orations,	Elocution,
	Greek Prose Composition,	English Composition.
	Lectures on the Essay.	
II. Term—	Algebra,	Derivatives,
	Livy,	Elocution,
	Herodotus or Thucydides,	English Composition.
	Greek Testament.	
III. Term—	Trigonometry,	Chemistry,
	Horace,	Elocution,
	Odyssey,	English Composition.
	Greek Testament.	

Sophomore Year.

I. Term—	General Chemistry,	Linear Perspective,
	Tacitus and Pliny,	Elocution,
	Rhetoric.	English Composition.
II. Term—	Animal Physiology,	Greek Oratory,
	Demosthenes,	Elocution,
	English Literature.	English Composition.
III. Term—	Botany,	Mineralogy,
	Latin Poets,	Elocution,
	German.	English Composition.

Junior Year.

I. Term—	Mechanics,	French Literature,
	French,	Orations,
	Sophocles or Euripides, or	Elocution.
	German, or	
	Surveying.	
II. Term—	Physics,	Electricity and Magnetism,
	Logic,	Orations,
	Terence and Juvenal, or	Elocution.
	French, or	
	Analytical Geometry.	
III. Term—	Astronomy,	Development of the English Language,
	Plato's Apology and Crito,	Orations,
	Physics, or	Elocution.
	Calculus, or	
	Analytical Chemistry.	

Senior Year.

I. Term—	Psychology,	Social Science,
	Geology,	Orations,
	Seneca or *Lucretius*, or	Extemporaneous Speaking.
	History of Mediæval Europe, or	Elocution.
	Practical Astronomy.	
II. Term—	Philosophy,	Anthropology,
	Economics,	Sanitary Science,
	Greek Lyric Poets, or	Orations,
	History of Modern Europe, or	Extemporaneous Speaking,
	Quantitative Analysis.	Elocution.
III. Term—	Ethics,	Evidence of Christianity,
	Civics,	Orations,
	Roman Law or *Latin*, or	Debate.
	English Oratory, or	
	Applied Chemistry.	

II. PHILOSOPHICAL COURSE.

Freshman Year.

I. Term—	Geometry and Conic Sections,	Practical Ethics,
	German, and	Hygiene,
	Cicero de Senectute et de Am., or	Elocution,
	Lysias' Orations,	English Composition.
	Lectures on the Essay.	
II. Term—	Algebra,	Derivatives,
	German, and	Elocution,
	Livy, or	English Composition.
	Herodotus or *Thucydides.*	
III. Term—	Trigonometry,	Chemistry,
	German, and	Elocution,
	Horace, or	English Composition.
	Odyssey.	

Sophomore Year.

I. Term—	Chemistry,	Linear Perspective,
	Rhetoric, and	Elocution,
	Tacitus and *Pliny*, or	English Composition.
	Xenophon's Memorabilia.	
II. Term—	Animal Physiology,	Greek Oratory,
	English Literature,	Elocution,
	Analytical Geometry.	English Composition,
III. Term—	Botany,	Mineralogy,
	Analytical Chemistry, and	Elocution,
	Latin Poets, or	English Composition.
	Demosthenes.	

Junior Year.

I. Term—	Mechanics,	French Literature,
	French, and	Orations,

	Greek Drama, or	Elocution.
	German, or	
	Surveying, or	
	Zoölogy.	
II. Term—	Physics,	Electricity and Magnetism,
	Logic, and	Orations,
	Terence and Juvenal, or	Elocution.
	French, or	
	Quantitative Analysis.	
III. Term—	Physics,	Development of the English Language,
	Astronomy, and	Orations,
	Plato, or	Elocution.
	Calculus, or	
	Biology.	

Senior Year.

I. Term—	Psychology,	Social Science,
	Geology, and	Orations,
	Senecâ, or	Extemporaneous Speaking,
	History of Mediœval Europe, or	Elocution.
	Practical Astronomy.	
II. Term—	Philosophy,	Anthropology,
	Economics, and	Sanitary Science,
	Greek Lyric Poets, or	Orations,
	History of Modern Europe, or	Extemporaneous Speaking,
	Economic Geology.	Elocution.
III. Term—	Ethics,	Evidence of Christianity,
	Civics, and	Orations,
	Roman Law or *Latin*, or	Debate.
	English Oratory, or	
	Comparative Anatomy.	

III. SCIENTIFIC COURSE.

Freshman Year.

I. Term—	Solid Geometry and Conic Sections,	Practical Ethics,
	German,	Hygiene,
	French,	Elocution,
	Lectures on the Essay.	English Composition.
II. Term—	Algebra,	Derivatives,
	German,	Elocution,
	French.	English Composition.
III. Term—	Trigonometry,	Chemistry,
	German,	Elocution,
	French.	English Composition.

Sophomore Year.

I. Term—	Rhetoric,	Linear Perspective,
	Chemistry,	Elocution,
	Surveying.	English Composition.

II. Term—English Literature,	Greek Oratory,
Physiology,	Elocution,
Analytical Geometry.	English Composition.
III. Term—Botany,	Mineralogy,
Analytical Chemistry,	Elocution,
Calculus.	English Composition.

Junior Year.

I. Term—Mechanics,	French Literature,
German,	Orations,
Zoölogy.	Elocution.
II. Term—Physics,	Electricity and Magnetism,
Logic, and	Orations,
French, or	Elocution.
Quantitative Analysis, or	
Economic Botany.	
I. Term—Physics,	Development of the English Language,
Astronomy,	Orations,
Biology.	Elocution.

Senior Year.

I. Term—Psychology,	Social Science,
Geology, and	Orations,
History of Mediæval Europe, or	Extemporaneous Speaking,
Practical Astronomy.	Elocution.
II. Term—Philosophy,	Anthropology,
Economics, and	Sanitary Science,
History of Modern Europe, or	Orations,
Economic Botany.	Extemporaneous Speaking,
	Elocution.
III. Term—Ethics,	Evidence of Christianity.
Civics, and	Orations,
English Oratory, or	Debate.
Comparative Anatomy.	

Lectures.

THURSDAY MORNINGS.

The following Courses of Thursday morning Lectures have been established. The lectures are given immediately after the Chapel exercises, are for one hour each, and continue through the year.

Senior Class.

I. Term—Professor Perrine on Social Science.
II. Term—The President on Anthropology.
III. Term—The President on Christianity.

Junior Class.

I. Term—Professor Loomis on French Literature.
II. Term—Professor Owens on Electricity and Magnetism.
III. Term Professor Perrine on the Origin and Development of the English Language.

Sophomore Class.

I. Term—Professor Bartol on Linear Perspective.
II. Term—Professor Castle on Greek Oratory.
III. Term—Professor Groff on Mineralogy.

Freshman Class.

I. Term—Professor Perrine on the Essay and the Oration.
II. Term—Professor Bartol on Derivatives.
III. Term—Professor Owens on Chemistry.

MONDAY MORNINGS.

Senior Class.

During the second term, Professor Groff will deliver a course of lectures on Sanitary Science.

Freshman Class.

During the first term, the President will give lectures on Practical Ethics, to be followed by lectures on Hygiene by Professor Groff.

SPECIAL LECTURES BY PROFESSOR GROFF, 1891.

During the third term of the year, Professor Groff will offer courses in Apiculture and Horticulture. These lectures will be elective, and open to all students of the University. The aim will be to teach Bee-keeping and Horticulture in a scientific and practical manner, giving the latest achievements in these pursuits.

The lectures will be given in Bucknell Hall, on such days and hours that will enable the students from all departments to attend.

SPECIAL LECTURES, 1889–90.

The following special lectures were delivered the past year before the students of the University:

I. Rev. Russell H. Conwell on "Oratory as a Science."
II. Rev. Russell H. Conwell on "Illustration in Oratory."
III. Rev. Russell H. Conwell on "Imagination in Oratory,"
IV. Rev. Russell H. Conwell on "The Power of Oratory."
V. Andrew Stephenson, PH.D., on "The Moral Element in Politics."
VI. Rev. James W. Putnam on "Rome, the Eternal City."
VII. Rev. James W. Putnam on "Paris, the Queen City of the World."
VIII. Rev. James W. Putnam on "Peeps at the Orient."
IX. Principal George M. Philips, PH.D., on "The Story of the Heavens."

Departments of Instruction.

The method of instruction in the College is partly by text-books, and partly by lectures, according to the nature of the subject discussed. Each Professor has his individual mode of imparting knowledge, and this, in the result, is advantageous to the learner. In general, the aim is to discuss each subject as far as possible as the subject matter requires, yet all branches are presented practically, comparatively, and historically, with the view of leading the student to the apprehension of the subject as a whole, and in its organic relations, and not to fill the memory with the phraseology of a text-book. The range and character of the instruction can be most accurately gathered from the following account of the different departments.

I. ELOCUTION AND ORATORY.

The aim is to train the student to speak effectively either in the pulpit or upon the platform or at the bar. Each student receives individual attention during the first half of the course in Elocution, during the latter half in Oratory.

The Freshman Class meets on alternate Thursday mornings ; and in each term two declamations are delivered by every member. A prize contest is held in the second term.

The Sophomore Class meets on alternate Thursday mornings ; and each member is required to present one declamation a term. During the first term a public exhibition is held.

Each member of the Junior Class pronounces two orations in every term. During the year there are three public exhibitions, the last of which is a prize contest.

One oration a term is required from every member of the Senior Class, and two of these are delivered publicly. A prize for the best oration on Commencement day is offered.

Special attention is paid to Debates and Extemporaneous Speaking. During the third term of the Junior year, debates will be held on assigned topics ; and during the Senior year, exercises in debate and extemporaneous speaking will be held in connection with the lectures on Anthropology and Social Science.

II. THE ENGLISH LANGUAGE AND LITERATURE

PROFESSOR PERRINE

The aim is to cultivate the power and habit of (1) accurate thinking, (2) correct and effective composition, (3) intelligent criticism of leading English authors ; and to acquire (4) a scientific knowledge of the Origin and Development of the English Language. To this end,

I. **Logic** is required in the second term of the Junior year, and in both its branches, (1) Formal and (2) Applied, is discussed by text-book, class disputations, and references for collateral reading. McCosh's Logic is the text used.

II. **Rhetoric** is pursued in the first term of the Sophomore year. Genung's Practical Rhetoric, and Rhetorical Analysis are used as a basis ; and the student will be required, in addition, to present analyses of themes, criticisms of plans, and exercises in all the forms of Composition discussed.

III. **English Literature** is pursued in the second term of the Sophomore year, and only the representative authors of each successive period are studied. Less attention is paid to the text-book than to a critical reading, in the class, of the best work of each author ; and as helps to this end, such texts as Lounsbury's Parlament of Foules, Kitchin's Faery Queene, Hudson's Shakespeare, Mackie's Maccaulay's Essay on Milton, etc., are used, with Meiklejohn's The English Language as a basis. The student will be urged to know, rather than to know about, English Literature.

IV. **English Oratory.**—A careful study of the English Orators will be made, as far as time will permit, with reference to the peculiarities of each period and especially to those of the present day. Clarke's Political Orations is recommended As this is one of the electives of the third term in the Senior year, there will be opportunity for an extended course.

V. **The Essay and the Oration.**—Six lectures are given to the Freshmen on "The Essay and the Oration," as an especial preparation for the practical work of the course, and supplementary to the work assumed to have been done in the preparatory schools.

VI. **The Development of the English Language.**—On the successive Thnrsday mornings of the third term, a course of lectures is given to the Junior Class upon this subject. The aim will be to trace the growth of the language from its rude beginnings to the present day. Lounsbury's "The English Language" is recommended as the text.

VII. **Essays and Orations.**—The Freshmen are required to present two essays in the first term, and three in the second and third terms, respectively ; the Sophomores, three essays each term ; the Juniors, two orations, and the Seniors one oration each term. The orations presented at the exercises of Junior Exhibition and Commencement will be received as two of the required orations. Both Essays and Orations are criticised with the author, if necessary.

VIII. **English Prose.**—A critical study of the development of English Prose, using Garnett's English Prose from Elizabeth to Victoria, with class essays.

IX. **Middle English.**—The study of Skeat's Specimens of English Literature, 1394-1579, of Skeat's Piers the Plowman, of Sweet's Middle English Primer, with special reference to the development of the language.

X. **Anglo-Saxon.**—A course in the study of Anglo-Saxon, will be offered as an "honor" in the first term of the Senior year.

XI. **Special Studies** in prominent authors, as the needs and attainments of the class may require. Last year the term was occupied in a study of Milton's Paradise Lost.

III. THE LATIN LANGUAGE AND LITERATURE.

PROFESSOR ROCKWOOD.

Latin is a required study through the Freshman year and in the first and third terms of the Sophomore year. Elective courses are offered in the second term of the Junior and in the first and third terms of the Senior year. Students who so desire are permitted, in any term except the first term of the Freshman year, to read for honors in Latin, provided they conform to the general rules governing honor work.

Accuracy and facility in reading Latin can be acquired only by those who are familiar with the forms of inflection and with the general principles of syntax. Therefore these subjects are emphasized at the beginning of the College course and special attention is paid in the first term of the Freshman year to grammatical drill, to a review of etymology, including the formation of words and of syntax.

In translation, a faithful reproduction of the thought of the author in correct, idiomatic English is always insisted upon. The work is so conducted as to test the student's appreciation of the text and to aid him in acquiring a mastery of accurate and forcible English. Large amounts are read at sight for the purpose of securing facility in reading and understanding new Latin. In reviews, there are frequent exercises in translation at hearing, designed especially to train the ear and to familiarize it with the sound of Latin.

Prose Composition is taught by oral and written exercises based upon the authors read. In the earlier part of the course, these exercises are designed to test the student's knowledge of forms and constructions, and to teach him exactness in their use; in the latter part, attention is also given to diction and style.

An outline of Roman History, as contained in Allen's History of the Roman People, is required for admission to College. The leading periods are still further studied in connection with Livy and Tacitus. Topics are assigned for investigation; courses of reading are suggested in Mommsen, Merivale and Gibbon; special works, as Capes' Early Empire and The Age of The Antonines, are read and the work upon them is tested by written examinations. The private life of the Romans is discussed in lectures and illustrated by wall-pictures, plates and photographs.

Roman Literature is taught by lectures, the latter being supplemented by assigned readings on the part of the class. A general survey of the whole subject is taken, beginning with the growth and development of the language and including the special characteristics of each period, from the earliest years of Rome to the fifth century, and an account of the leading writers and their works.

A brief course in Roman Law is offered to the Seniors. The subject is treated, in the main, historically. Instruction is given by text-book and by lectures.

The following books are used: Kelsey's *Cicero de Senectute et de Amicitia;* Lincoln's Livy; Lincoln's Horace; Tyler's Tacitus; Holbrooke's Pliny; Crowell's Selections from Latin Poets; West's Terence; Fowler's Plautus; Lindsay's Juvenal; Hurst and Whiting's Seneca; Kelsey's Lucretius; Allen and Greenough's Ovid; Peck's Suetonius; March's Tertullian; Hadley's Roman Law; Allen and Greenough's and Harkness' Latin Grammars; Harper's Latin Dictionary.

IV. THE GREEK LANGUAGE AND LITERATURE

PROFESSOR CASTLE.

In this Department, it is expected that the student in his preparatory course has mastered the Attic forms, the most common principles of syntax, the "principal parts" of the most common irregular verbs, and the correct writing of simple Greek sentences. He ought also to be able to read the Greek text fluently and to understand short Greek sentences when they are spoken to him. To facilitate this end, it is recommended that the student pronounce and write Greek from the very first of his preparatory course until this ability is acquired. He may get suggestions in regard to this from "Natural" and "Inductive Methods." While a fixed amount of the Anabasis and Iliad is elsewhere stated to be required, yet quality of work is preferred to quantity. In short, it is expected that the student has been *thoroughly drilled* in his preparatory course.

Only the first part of the College course, especially the first term of the Freshman year, is devoted to a review of the more difficult parts of the preparatory work. Stevens' Select Orations of Lysias are studied during this term. Special attention is paid to the translation and syntax of the Greek verb. There are weekly exercises in Greek Prose Composition. Written translations instead of oral ones are occasionally required.

During the second term of the Freshman year, Mather's Selections from Herodotus and Thucydides are critically translated, and the peculiarities of the dialect of Herodotus are carefully noted. Other features of the work of the term are: Literal translations, study of the formation and derivation of Greek words, and Grecian History. One hour each week during this term, and also during the following one, is devoted to the Greek New Testament. The object in placing the study of the Greek New Testament so early in the course is that the student may learn to translate it for himself as soon as possible, and that he may thus have an opportunity to continue this work privately during his course.

Merry's Odyssey and Seymour's Introduction to the Language and Verse of Homer are the text-books which are used in the third term of the Freshman year. Special attention is given to the metre, syntax and style. The object sought is to help the student to understand and appreciate, rather than to criticise, the Homeric Poems.

During the second term of the Sophomore year, the orations of Demosthenes, Tyler's edition, are critically read and studied as models of eloquence in the light of the history and politics of the Macedonian Period. By a series of lectures upon the Attic Orators the attempt is made to show the relation of Demosthenes to them and to give a general idea of Greek oratory.

The Greek Drama is the topic of study for the first term of the Junior year. The tragedies of Sophocles or Euripides are used as the basis, and for the present, the text-book is White's Oedipus Tyrannus of Sophocles. The origin and development of the drama, the Greek theatre, and the metres of the drama, are topics which receive special attention.

In the third term of the Junior year, Dyer's Plato's Apology and Crito is used to introduce the student to Plato's style, and in connection therewith copious extracts from Xenophon's Memorabilia are read at sight. The aim in the latter part of the course is to devote the time largely to literary criticism and literature, yet the work will be varied to suit the attainments and the taste of different classes.

During the second term of the Senior year, an optional course is offered, consisting of the Lyric Poets and Theocritus.

Those students whose standing will permit it may take as "honor studies," New Testament Greek, Protagoras of Plato, Pindar, Aristophanes, Symposium of Xenophon, etc.,—great freedom of choice being allowed.

Translation at sight and at hearing will be practiced during the whole course at such times as the needs of the various classes seem to require. The aim of this department is to give as thorough a knowledge of the Greek Language and Literature as the time allotted will permit, and as far as possible, to make the student self reliant and independent in his work.

V. MODERN LANGUAGES.

PROFESSOR LOOMIS.

In the Classical Course, there are daily recitations in both French and German for a period of thirteen weeks. Attention is given, first, to the elements of Grammar; afterwards, to the critical reading of some of the masterpieces of either language. The method of instruction is inductive as well as deductive, and as large a proportion of attention as can profitably be so devoted within the limitations of a college course is aimed to be given in both languages to practical exercises. These embrace considerable drill in colloquial speech and an extended course in French and German Composition. This instruction is supplemented by a course of lectures in which some prominent feature in the history of either language is examined in detail. The subject treated varies from time to time. Last year it was "The Origin and Development of the French Language."

In both divisions of the Philosophical Course the study of German is continued as a daily recitation through the Freshman year. The students in the Scientific Course likewise take French as a daily recitation through the Freshman year. Other divisions of the Scientific Course recite French with Classical Students.

French and German may each, as optional studies, be pursued by all students in a daily recitation for an additional term. In place of German, Spanish may be substituted, and Italian in place of French.

VI. MEDIÆVAL AND MODERN HISTORY.

PROFESSOR LOOMIS.

A somewhat extensive acquaintance with Ancient History is a requirement for admission. The historical course in College is devoted, first, to the History of Mediæval Europe, with a view to ascertaining the principles which have governed its social and political development; secondly, to the History of Modern Europe, with the object of showing how have been evolved the form and character of its states as they now exist. The method of study is a varied one, being by text-book, lectures, and topics assigned for individual research. These courses, extending each as a daily study through one term, are elective for Seniors.

VII. MATHEMATICS AND ASTRONOMY.

PROFESSOR BARTOL.

Solid Geometry and Conic Sections.—The exercises consist in recitations from the text-book, the original demonstration of additional theorems, and applications in the solution of numerical problems. The properties of Conic Sections are discussed by the methods of Elementary Geometry, and with a view to their application in the problems of Mechanics and Astronomy.

Higher Algebra.—Some time is given to the graphical representation of the relations of quantities. The topics discussed are: Progressions, Theory of Limits, Differentiation, Development of Functions into Series, Convergency and Summation of Series, Logarithms, Compound Interest and Annuities, Permutations and Combinations, Probability, Continued Fractions and the Theory of Equations. Differentiation is introduced as a means to clear and concise proofs of the Binomial Theorem, Logarithmic Series and Exponential Series.

Trigonometry.—The course includes Plane and Spherical Trigonometry. It is as extensive as that in our best schools, but does not include those discussions and investigations which are important for specialists only. Time is given to the numerical illustration of principles, for the purpose of making sure that the meaning and use of formulæ, demonstrated and learned, are thoroughly understood.

Surveying.—Fourteen weeks are given to this subject. In Chain surveying full directions are given for measuring and ranging out lines, for making and reducing field notes, and for plotting. In Compass and Transit surveying, a careful study of the necessary instruments is made. The student is taught their adjustments and the best methods of reducing their errors. He is instructed in the various ways of obtaining the proper data in the field, for his work, and in the best tests of the accuracy of his field notes. He is made acquainted with the variations of the compass, and such tables and methods are furnished him as will enable him to establish, with some precision, his geographical meridian, and undertake the retracing of old lines. Time is also given to Laying out and Dividing lands, a subject of some importance. The system practiced by the government in the survey of Public Lands is fully set forth. Under the subject of City surveying full directions are given with respect to grades, sewers, the establishment of permanent reference points and the adjustment of property lines. Under Mine surveying, in connection with those things peculiar to this branch, directions are also given for running contours and sketching topography. Some observations are made for Latitude and Time.

Analytical Geometry and The Calculus.—The student will be taken through the elementary properties of lines as treated in Peck's Analytical Geometry. The Calculus is required only in the Scientific Course, and, as an elective, is open to all students who have taken the Analytical Geometry. The principles and methods of these subjects are applied in the discussion of some of the laws and general problems in Mechanics and Astronomy.

Astronomy.—The required course is completed with the subject of General Astronomy, but the aim is to treat Astronomy not merely as an application of mathematics, but as a science which forms an essential part of a finished education. This subject is taught by text-book, with illustrations in the Observatory, and some lectures. There is free use by the student of the ten inch Equatorial Telescope, to verify the statements of Descriptive Astronomy.

Practical Astronomy.—Observations are made for time, and to determine the errors of the Transit Instrument. The use of the Micrometer is taught and the

value of one revolution of its screw is determined experimentally. The adjustments of the Equatorial for correct position are made. Observations are made for Azimuth, and for Latitude and Longitude. The student is required to make all such astronomical observations as are requisite in a practical acquaintance with the subject of Geodetic Surveying, and to reduce his notes in the use of the Nautical Almanac and methods of reduction not involving the Calculus. Time is given to calculations of eclipses and star occulations.

Text-books.—The following text-books are used: Wentworth's New Solid Geometry and Conic Sections; Well's Plane and Spherical Trigonometry; Well's College Algebra; Carhart's Plane Surveying; Peck's Analytical Geometry; Peck's Practical Calculus; Olmsted's College Astronomy and Loomis' Practical Astronomy.

VIII. PHYSICS AND CHEMISTRY.

PROFESSOR OWENS.

Physics.—The course in Physics extends through the Junior year, supplemented by a course of lectures on Electricity and Magnetism. In the class-room, the text-book and lecture methods are combined. Students are expected to work in the Laboratory at least five hours a week, and complete a course of experiments adapted to cultivate close observation, accurate reasoning, and to illustrate the laws of the subject. The course is intended to be broad and general, and suited to the requirements of general culture. Experiments not suitable to be performed by the student will be shown by the Professor before the class.

Students who have taken the above course may continue their work, as an honor study, in any special line of investigation, subject to the approval of the Professor.

Descriptive Chemistry is taught by text-book and lectures. The object of the course is to give the student a general knowledge of the most common elements, their sources, use, compounds and behaviour towards other elements and compounds, and to drill the student in writing formulæ and solving chemical equations. To accomplish this, each student will be expected to spend at least five hours each week in the Laboratory, studying the characteristics and reactions of the elements and their compounds, and performing the more simple experiments outlined in the text and lectures. Notes will be kept by each student, describing the experiment and giving the equation which represents the reactions taking place. The Professor will from time to time examine the note-books, and make such suggestions as he thinks helpful.

In order to give those who have not studied Chemistry in their preparatory course a general idea of the aims and scope of the subject, and the methods by which it is studied, a course of experimental lectures is delivered to the Freshmen during the third term.

Analytical Chemistry is open to those only who have completed, and been examined in, Descriptive Chemistry. In this course, students examine sixty known solid and liquid substances, noting their various reactions. They are then given unknown substances, several in one mixture, which they are required to determine. The course is completed when sixty unknown mixtures have been determined and correctly reported.

Applied Chemistry, covering some topics in Medical Chemistry and Toxicology, Soil Analysis, Water Analysis, Organic Analysis and Analysis of Iron Ores, can be pursued by those who have completed the other two courses.

Quantitative Analysis comprises those determinations which will be most useful to the student of general culture. It also offers to the specialist an opportunity to become acquainted with the methods of separation and manipulation. It is open to those who have taken General and Analytical Chemistry.

Students wishing to follow special lines of investigation, can do so under the direction of the Professor.

IX. ORGANIC SCIENCE.

PROFESSOR GROFF.

Physiology, Hygiene and Sanitary Science.—The great importance of these studies is recognized. Instruction is given by means of text-book and lectures. In the Freshman year, students in all the courses of study are required to attend a course of lectures on topics pertaining to personal hygiene. The object of this course is to show to students how they should live during the college course in order to maintain the highest degree of good health.

Animal Physiology.—In the Sophomore year, there is given to the students of all the courses a series of lectures on this subject. It is the aim of these lectures to teach the elements of Anatomy and Physiology in a comparative manner, in the belief that better work can be done, than by confining the attention to the human subject alone. This course is illustrated by means of a French manikin, an excellent skeleton, numerous dry and wet preparations and fresh specimens. There has recently been executed under the direction of Professor Groff, a large number of charts designed to facilitate the pursuit of these studies. In the Senior year, there is delivered a course of lectures on Sanitary Science, in which drainage, heating and ventilating, disposal of waste, contagious diseases, sanitary regulations, and other topics which interest modern sanitarians are discussed. This course is followed by another (at the request of the class) on Sexual Physiology, in which all matters pertaining to that subject are discussed in a practical manner. In the Senior year, a course in comparative anatomy is offered to students in the Scientific Course as an elective.

Botany.—There is no study which, when rightly pursued, can better develop and strengthen the perceptive powers of the mind than Botany. This work is taken up first in the Sophomore year, after the students have studied General Chemistry, thus preparing them to understand the lectures on Plant Physiology. After a few weeks spent in the study of botanical terms and the anatomy of plant tissues, studied from plants and charts, the student commences to analyze plants. At first this is done in the class-room. Each student has the same plant, and also a blank schedule which requires an exhaustive analysis of the root, stem, leaf, flower and fruit. One student reads off the characters of the plant from the plant itself, following the order of the schedule. In a few days, students are able to do this readily. They may then perform the analyses in their rooms. As an evidence of work done, the analyses are required to be written out in ink, and students cannot pass in to the study until sixty of these are presented. The botanical text-book is used only for its key, by means of which the name of the plant is found, but the name is, by this method, the last thing obtained ; all the visible characters are first studied. This course is supplemented with lectures on the elements of Plant Anatomy and Plant Physiology. To

advanced students, additional work in Botany will be offered. Charts, compound microscopes and dried specimens comprise the available equipment for this work. All students are required to take the first course in Botany. Courses in Economic Botany and Horticulture are offered as elective studies in the Junior year, Scientific Course.

Biology.—A course in Biology is offered in the Junior year to students in the department of Science. The course will consist of lectures and laboratory work. Advanced work is offered to students prepared. A small charge will be made for material used.

Zoology.—In this study, instruction by text-book and lectures is combined with laboratory practice. The Laboratory is provided with material and with compound microscopes sufficient in number to afford opportunity to each student of devoting several hours a week to practical work. A small charge is made for the use of instruments. This course and the one in Biology are recommended to students looking forward to the study of medicine.

An advanced course devoted to original research is offered to students qualified.

Determinative Geology and Mineralogy.—Instruction is given by text-book and lectures, and supplemented by laboratory practice. The course opens with laboratory work in Mineralogy and Lithology. Each student is expected to collect and to label correctly all the minerals and rocks within a radius of several miles of the College. All accessible fossils are carefully studied. Instruction in Field Geology is given in the field. The collection of minerals belonging to the College has been re-arranged with special reference to this work. A course in Blowpipe analysis is offered to advanced students, and is recommended to all who desire a reliable knowledge of minerals. In the Senior year, an elective in Economic Geology is offered to students of the Scientific Course. A small charge is made for material consumed.

X. MENTAL AND MORAL SCIENCE.

PRESIDENT HARRIS

The studies in this department are pursued in the Senior year and embrace Psychology, Philosophy, Anthropology, Ethics and Evidences of Christianity.

Daily recitations are had in Psychology during the first term of the Senior year. Bowne's Psychology is used as a guide to the student in interpreting the facts of his own consciousness. All the definitions are tested by the Socratic method of investigation and informal expository lectures upon the topics discussed in the text-book. Students are required to pursue an extensive course of collateral reading in works which can be obtained in the Library of the College. The course of reading for 1891 will consist of designated portions of Ladd's "Physiological Psychology," Sully's "Outlines of Psychology," and Porter's "Human Intellect." Oral discussions on assigned topics are held, in which every member of the class is required to take part. Frequent written examinations and theses on assigned subjects, test and deepen the student's knowledge. An honor course in Hamilton's "Lectures on Metaphysics" is offered to the Seniors during the Fall term.

The Seniors, in the second term, pursue the study of Philosophy, following, substantially, the same method as in the study of Psychology. Each student is required to pursue a course of reading in the History of Philosophy, and to report

upon his work to the class. The course includes a general acquaintance with the life and teachings of Socrates, Plato, Aristotle, Descartes, Bacon, Locke, Leibnitz and Kant. An honor course in Bowen's "History of Modern Philosophy," or in Lotze's "Grundzüge der Psychologie," is offered for the winter term.

Lectures on Practical Ethics are given to the Freshmen in the first term of the course. The Seniors, the last term of the course, pursue the study of Ethics, inquiring into the fundamental principles of the science. Robinson's "Principles of Morality" is used as the basis of instruction. The student reads and reports on designated portions of the works of Plato, Aristotle, Kant, Butler, Janet, Wuttke, Strong, and other leading authorities in Ethics and the Philosophy of Religion.

In the second and third terms of the Senior year, a course of lectures is given on Theism, covering the topics that are at present occupying the attention of thoughtful men.

XI. ECONOMICS AND POLITICS.

PROFESSOR PERRINE.

Economics is considered as the science of exchanges, and is followed into its practical applications in manufacturing, banking, national credit, and international commerce with illustrations from well-known facts and current events. It is insisted that any stable system of economy must find its foundation in ethical principles.

There will be held daily recitations from Marshall's "Economics of Industry" and Andrews' "Institutes of Economics," supplemented by lectures, and by debates on the part of the class.

Politics is considered as the science of government, but not in any partisan spirit. The different forms and theories of government are presented with historical examples; following which the Constitution of the United States is analyzed and the position of our government with reference to questions both foreign and domestic, is investigated in its historical development, much original work being required. Wilson's "The State," and Johnston's "History of the United States," are recommended, but the work done will be outlined by lectures.

The views of prominent socialists of the past and the present are presented in a series of lectures, with discussions of the various theories advanced, reference being made to Laveleye's Socialism of To-day, Rae's Contemporary Socialism, Ely's French and German Socialism, and the best magazine literature on the subject.

Libraries and Apparatus.

THE LIBRARIES AND READING-ROOM.

The College Library.—The general library contains upwards of 10,000 volumes. A reading-room is connected with it. During term time, both are open forenoon, afternoon and evening of each day, Sundays and holidays excepted, and both are maintained at the expense of the University without extra charge to students. Students are allowed to draw two books at one time and to retain them for two weeks.

The library has now entirely outgrown its former accommodations, but the completion of the new Laboratory building will leave vacant the large adjoining room, which will henceforth be used for library purposes.

The library is regarded as a working laboratory for all departments of instruction, students being constantly cited to it in class-room work. It is in this way made to answer, not merely the purposes of general culture, but to supplement, in great measure, the monographic treatment of text-book study, and the student is trained under competent guidance to become his own investigator. The resulting practical acquaintance with books and bibliography is certain to prove a valuable part of liberal education. That the demands thus made upon it may be met, it is the purpose to have the library so systematized that all its resources on any given subject shall be at once available. To secure this end, all books will be arranged on the shelves according to the most approved decimal system. A card catalogue will be prepared, making an alphabetical index to the whole collection. This work is already under way and will be rapidly pushed to completion.

During the past year, valuable contributions have been received from The Hon. Secretary of the Interior; The Hon. Louis E. Atkinson; His Excellency, Ex-Gov. James A. Beaver; Hon. Horatio Gates Jones; Professor G. G. Groff, LL. D.; Professor Enoch Perrine, A.M.; and the brothers D. B. and G. B. Miller.

The Theta Alpha Society's Library is deposited in the Society's Hall, and contains about 600 volumes.

The Euepian Society's Library is also in the Hall of the Society, and contains about 550 volumes.

The Library of the Young Men's Christian Association consists mainly of works relating to Missions and Missionary fields, and contains about 300 volumes.

The Reading-Room, in connection with the general library, is maintained at the expense of the University. By purchase or by contribution, its tables are supplied with the current numbers of between seventy and eighty publications, including the leading scientific, literary and philological reviews, journals of art, and papers of the day.

On shelves adjoining the tables of the reading-room are placed encyclopedias, dictionaries, maps, gazetteers, indices and complete sets of such reviews as The North American, Edinburgh, London Quarterly, Popular Science Monthly and Littell's Living Age.

THE MUSEUM.

The College possesses a good collection of illustrative materials in Botany, Mineralogy, Geology and Zoölogy. The specimens are distributed under these classifications and that of Archæology as follows :

Botany,	1,329
Mineralogy,	2,910
Geology,	1,535
Zoölogy,	4,450
Archæology,	510
Total,	10.734

Additions to the Museum will always be thankfully received, especially of objects which can be utilized in the class-room.

Among these may be mentioned : Zoölogical specimens, especially marine and fresh-water forms of life, insects, skeletons of vertebrated animals, birds and mammals, botanical specimens, crystallized minerals, American and especially Pennsylvania rocks.

Contributions have been received during the past year from Dr. Pemberton Dudley, of Philadelphia ; Dr. Weber Gerhart, of Lewisburg ; Mr. David Meyers, of Lewisburg ; Mr. George Meiland, of State College ; Mr. Chas. J. Wolfe, of Lewisburg ; Hon. Charles Miller, of Franklin, and French Brothers of Rocky Point, N. C.

THE ART COLLECTION.

The beginning has been made of a collection of paintings, casts, engravings and heliotypes, for the illustration of the Fine Arts. The specimens now in possession of the College number about five hundred, of all kinds, and furnish very considerable aid in illustrating the principles and the history of painting and sculpture.

LABORATORY AND APPARATUS.

The New Chemical and Physical Laboratory affords superior advantages in the study of Chemistry and Physics. The classes in Physics have the option of working in the Laboratory. Those electing laboratory work will be required to devote at least five (5) hours a week to this part of the subject. Several different rooms have been especially fitted up to render them suitable for studying, by means of experiments, the subjects of Sound, Light, Heat and Electricity. Most of the apparatus necessary for experimenting in these branches is now provided and other will be added as occasion may demand.

The commodious experiment room for Descriptive Chemistry will accommodate ninety-six students in two sections. Each student is provided with a desk three feet ten inches long, having upon it gas, water, basin with waste, steam and hood for carrying off foul gases. The most frequently used chemicals and pieces of apparatus

will be supplied to each student, to be retained by him during the term, and kept under lock and key. The infrequently used materials will be placed on a table to be used in common by all the students.

In the Lecture-room, hoods and ventilating flues enable the Professor to perform experiments involving the generation of foul odors without vitiating the air of the room. All modern conveniences are placed upon the lecture table, as gas, steam, oxygen, hydrogen, exhaust air under pressure, etc. A projecting lantern of the most improved type, made by Newton & Co. (London, Eng.), charts and specimens are freely used to illustrate the subject under consideration.

In the Analytical rooms, the most perfect opportunity for individual work is afforded, throwing each student upon his own responsibility in order to accomplish the most complete development. Students are encouraged, when sufficiently advanced, to devise tests and methods of separation other than those mentioned in the text-book, and thus to cultivate the habit of original investigation. Last year, two superior balances were added to the equipment.

The Physical and Chemical Library has a room on the second floor, and offers facilities for the complete investigation of subjects in Physics and Chemistry. A number of scientific periodicals are taken so that the most recent thought and investigation in any line of work is accessible at any time.

The student is expected to pay for materials used and apparatus broken. To meet this a deposit will be made at the beginning of the term with the Registrar, and the unexpended balance will be returned at the close of the term.

The Laboratories will be open from 8.30 A.M. to 5 P.M. daily, except Saturday, Sunday and Legal Holidays.

General College Orders.

ATTENDANCE.

Only under exceptional circumstances will excuse be granted to leave College during term time. In such cases the examinations on the studies gone over by the class, during a student's absence, will be specially searching, and a high degree of attainment will be exacted. One who is absent during an entire term must almost necessarily lose his standing in his class. The work of the term begins on the day of opening, and recitations are expected at the first hour appointed for the meeting of the classes. The work continues uninterruptedly, with the exception of holidays marked in the Calendar, until the last day of the term.

STANDING.

Each instructor records, in numbers ranging from 0 to 10, the character of the recitations of every student reciting to him, and notes also any delinquency in conduct and attendance. The weekly summary of these markings is recorded in a permanent book, and constitutes the basis for determining the standing of the student during his connection with the Institution. Unexcused absences from recitation are counted as zeros in making up the weekly averages. At the close of each term an average of these marks is made out, and a report of the scholarship, attendance and conduct of each student is transmitted to his parent or guardian by the President. No student is advanced from one class to another whose average in any study is less than seven.

Conditioned students are not recommended to the Board of Trustees for promotion, and their names in the Annual Catalogue appear with those of the class to which the study in question belongs. Students conditioned on entrance must discharge such conditions within the first year thereafter.

Appointments in the Graduating Class are made according to the aggregate standing of each member during his entire course. But in assigning these parts, the Faculty take into account the deportment of the student, as well as marks for recitations. The minimum average for an Oration of the First Class is fixed at 9, and for an Oration of the Second Class, at 8. Providing conduct and attendance upon College exercises have been satisfactory, the Valedictory Addresses are given to the one who is the highest in his class, and the Latin Salutatory, to the one who is next.

EXAMINATIONS.

The dates of the Examinations are given in the Calendar. In case a student fails to be present at the examination of his class, for any justifiable reason, his examination will be held at such time as the Faculty may appoint.

PUBLIC WORSHIP.

The College duties of each day are opened with religious services in Bucknell Hall, which all the students are required to attend.

Attendance upon public worship at some Church in town on Sunday morning is required. Students must attend the religious services held on Thanksgiving Day.

On the Day of Prayer for Colleges, religious services are held in the forenoon, and a sermon is preached by the President, or by some one at his request. All the students are required to attend. In the afternoon, a prayer-meeting is held in Bucknell Hall, and in the evening another, in connection with one of the churches in town, attendance upon which is urged, though not required.

There is maintained by the students a prayer-meeting on Tuesday evenings, attendance on which is optional.

VOLUNTARY SOCIETIES.

Euepia; Theta Alpha.—These are the two Literary Societies in College. They have meetings on Friday evening of each week for Orations, Essays and Debates. Each Society has a convenient Hall and a valuable Library, and, by an arrangement of the Faculty, will always have a nearly equal number of members.

The Young Men's Christian Association comprises students from the College. It receives religious periodicals and corresponds with kindred Societies. A new Hall has recently been appropriated to the Society, and has been suitably furnished for religious meetings.

The Students' Publishing Association is an organization which has in charge the issuing of "The University Mirror." This periodical of some twenty or more quarto pages appears monthly during the collegiate year.

GOVERNMENT.

It is expected that all who enter the courses of study in the College do so for the purpose of acquiring an education, not only of the intellect, but also of character. The Laws of the College, enacted by the Board of Trustees, are as few and simple as the proper regulation of a community of young men will permit. These are printed, and a copy is placed in the hands of every student at the beginning of each year. These Laws must be observed, not only in their letter, but in their spirit. The atmosphere of the Institution is not that of arbitrary restraint, but of reasonable conformity to reasonable laws. The College does not wish to place its stamp or bestow its honors upon any one who is not willing to deport himself as a gentleman. Each student is distinctly placed upon his manhood, and if he abuses his privileges, after reasonable caution, he must withdraw from the Institution.

PRESIDENT'S OFFICE HOURS.

The President of the University is in his office, in the Main College building, every Tuesday from 9.30 A.M. until 12 noon, to confer with students who may desire advice or assistance. Students are encouraged to frankly communicate with the President upon any subject in which he may be of help to them.

HEALTH AND PHYSICAL CULTURE.

Professor George G. Groff, M.D., LL.D., President of the Pennsylvania State Board of Health, has general charge of the sanitation of the University.

The Freshman Class receives, at the beginning of the year, a course of lectures on Hygiene.

The Tustin Gymnasium, recently opened, affords opportunity for physical exercise in the winter and during inclement weather at other seasons. Mr. Charles William Allen is the Director of the Gymnasium, and gives training in class exercises with light apparatus to the students of the College and the Academy. The ladies receive physical training in the Gymnasium Hall of the Institute, under the direction of Miss Ada Carlton Groom, A.B.

The Athletic Association of the College has been formed to encourage and regulate athletic sports. Considerable liberty is permitted to the Association in carrying out its purpose. The Association is not allowed, however, to arrange match games with other similar bodies without first having secured the consent of the Faculty.

Aids and Honors.

PRIZES.

The John M. Finn Prizes.

Mr. John M. Finn, of Philadelphia, of the Class of 1854, has established:

A First Prize, either in money or books, which is offered to the student who gives evidence of having the best ability to go on with the studies of the Freshman Year, and a Second Prize to the next best. These prizes are awarded, upon examnation, at the close of the Fall term. The examination is based upon the subjects in Greek, Latin and Mathematics pursued by the class during the term, and is conducted by Professors of other institutions.

For the year 1889-90, the First Prize was awarded to Ephraim M. Heim, fitted for College at Keystone Academy, and the Second Prize to Eugenio Kincaid Thomas, fitted for College at Keystone Academy.

Prize for Declamation.

A prize is awarded to the member of the Freshman Class who shall excel in declamation at the Annual Contest of the Freshman Class.

This prize, for 1890, was awarded to Howard Wilson Sneck.

The Williams Prize

The Rev. Charles L. Williams, of Upland, Pa., has established an annual prize to be given that member of the Freshman Class who shall, on or before the first day of June in each year, present the best essay upon a topic to be selected by the Professor of Rhetoric. The Committee of Award will consist of the Professor of Rhetoric and two others to be designated by the Faculty.

The topic for the current year is "The Literary Merits of Bunyan's *Pilgrim's Progress.*"

This prize was awarded last year to Ephraim M. Heim.

The Prize of the Class of '71.

This prize, established by the Class of 1871, consists of the sum of twelve dollars, to be awarded to the student of the Freshman Class who shall prove himself best prepared for College in the two branches, Latin and Mathematics, and who shall have received his preparatory training in Bucknell Academy.

This prize for 1889-90 was awarded to Samuel Harrison Zimmerman.

The David Henry Evans Prize.

In memory of his deceased classmate, David Henry Evans, Rev. Henry M. Wolf, Jr., of the Class of 1880, has established an annual prize of ten dollars to be

awarded to that member of the Sophomore Class who shall write the best English composition on an assigned subject. The Committee of Award consists of the President, the Professor of Rhetoric and one other chosen by themselves.

The subject for the year 1891, is "Shakespeare's Prose and Bacon's Prose Compared." The compositions are limited to 2,000 words, and must be presented to the Committee on or before the first day of June.

This prize was awarded last year to Walter Bodine Pimm.

Special Trigonometry Prize.

A special prize was awarded last year to Andrew Robert Elmer Wyant, who received the highest grade in Trigonometry.

Special Chemistry Prize.

A special prize for the highest grade in Chemistry for 1890, was awarded to John Brice Cressinger.

The Fowler Prize.

The Rev. F. K. Fowler, Class of 1869, has established an annual prize of fifteen dollars to be awarded to that member of the Junior Class who shall pronounce the best oration at the Junior Exhibition in Oratory.

At the Exhibition, May 16, 1890, this prize was awarded to Jacob Henry Minick.

The Herbert Tustin Prize.

In memory of his deceased son, the late Professor F. W. Tustin, PH.D., of the Class of 1856, paid to the Trustees of the University the sum of five hundred dollars, "as the foundation of the HERBERT TUSTIN PRIZE FUND, the interest of which is to be forever paid annually as two prizes, in the proportion of fifteen dollars for the First Prize, and of ten dollars for the Second Prize, to the two students of the Senior Class who shall have attained the highest and the second highest standing in Psychology and Ethics (under such regulations for the pursuit of these studies as the Faculty of the College shall prescribe from time to time), and whose conduct for the last two years of their course in College shall have been without exception."

At the commencement of 1890, this prize was divided between James Harry Haslam and William Musser Courson.

Chaplain J. J. Kane Prize.

The Rev. James J. Kane, Chaplain in the United States Navy, and a graduate of the Theological Department of this University of the Class of 1867, has established a Prize Fund of one thousand dollars, the interest of which is to be given annually to that member of the graduating class who delivers the best oration on Commencement Day.

This prize was awarded last Commencement to James Harry Haslam.

SCHOLARSHIPS.

I. The Bucknell Scholarships.

The William Bucknell Scholarships, twenty in number and of one thousand dollars each, were established for the purpose of aiding worthy young men in securing an education which will enhance their usefulness in the world. The income of these scholarships is to be paid annually to twenty young men, in accordance with

the rules which will be made known upon application to the Committee of Examination, consisting of the President of the University, H. S. Hopper, Esq., and Professor F. E. Rockwood.

II. Scholarships for Ministers' Children.

Scholarships upon the general foundation have been established for the children of ministers of the Gospel, of all denominations, in active service.

III. Annual Scholarships.

A number of persons have established annual scholarships for the aid of young men or women attending College. Information concerning ministerial and annual scholarships can be obtained from the President of the University.

HONOR EXAMINATIONS.

In order to promote special scholarship in the several studies taught in the College, the following provision has been made:

1. Any student who has attained an aggregate average of nine in all the studies of the previous term, may take special work in any department of the College, under the direction of the Professor in that department.

2. Such work must be assigned by the Professor, and the method of study prescribed by him.

3. If the student shall attain an aggregate average of nine in all the studies of the current term, and pass a satisfactory examination in the voluntary study before a committee appointed by the Faculty, the work shall be credited to him in the Annual Catalogue of the College.

4. But one such study shall be pursued by any one student during any one term.

5. The Professor under whom the student is working shall have the privilege of requiring a partial examination on the work done at any time during the term, and there may be regular recitations, at the Professor's option.

6. The amount and quality of this extra work shall be taken into the account in awarding honors at graduation.

The following Honor Examinations have been sustained during the past year:

With President Harris:—William Musser Courson, James Harry Haslam, Willard Carey MacNaul and John Irven Woodruff, in Hamilton's Metaphysics; Richard Lloyd Schroyer, in Tylor's Anthropology.

With Professor Groff:—Annie Catherine Carlisle, Elton Smith Corson, Alice Gertrude Myers and Walter Bodine Pimm, in Zoölogy.

With Professor Bartol:—Foster Henry Starkey, in the Calculus.

With Professor Rockwood:—Llewellyn Phillips in Cicero de Officiis; Ephraim M. Heim, in Ovid.

With Professor Perrine:—William Farrow, Jr., Ralph Charles Henry Catterall, Robert Burr Dunmire, Jacob Henry Minick, Almon Odell Stevens, Elton Smith Corson, Homer Dowlin, Arthur Fremont Gardner, Charles Koonce, Alice Gertrude Myers, William Clayton Noll, Walter Bodine Pimm, Llewellyn Phillips, Charles Grant Shaffer, George Shorkley, Andrew Robert Elmer Wyant, in Milton's Paradise Lost; Willard Carey MacNaul, in Economics; Ephraim M. Heim, in Piers the Plowman.

With Professor Castle:—Willard Carey MacNaul, in Select Orations of Demosthenes; Almon Odell Stevens and Foster Henry Starkey, in Protagoras of Plato; Philip Jackson Dickerson, in New Testament Greek; Foster Henry Starkey and Ephraim M. Heim, in Xenophon's Symposium.

Expenses.

The Study Rooms are so arranged that two students occupy the same study. The Dormitories are intended to accommodate only one person, so that each student has his own private sleeping room. These are furnished with new spring bedsteads. The student must supply himself with all other furniture. Students are responsible for damage to their rooms, whether it be done when they are present in the room or absent from it.

The College charges amount to eighty dollars per annum, and are apportioned as follows:

	Per Annum.
Tuition, ...	$50 00
Room-rent, Fuel and Incidentals, ...	30 00
	$80 00

These charges must be paid in advance at the beginning of each Term.

No student is entitled to his place in his class until he has made settlement with the Registrar.

A slight additional charge is made for rooms cared for by the Institution.

No deduction will be made except in case of protracted illness.

If a student occupy a study by himself, the charges for room-rent and private fuel will be doubled. The assignments are for one year, and are made the first Monday morning in June, immediately after the devotional exercises in Bucknell Hall. Students from a distance will save inconvenience by applying to the Registrar for a room before the Term opens.

Free scholarships, covering tuition, are also provided in all the Departments of the University for children of Ministers of the Gospel, *in actual service.*

In the laboratories students pay for chemicals used and for apparatus broken or damaged. In the Chemical Laboratory this will amount to about $12.00 for Analytical and $2.75 for General Chemistry, depending upon the care of the student. Before entering upon the experimental courses students must deposit with the Registrar security for materials used.

The Expenses for Music and Printing for Examinations and Anniversary occasions, are paid by the classes for which such expenses are incurred. Graduation fee and Diploma, five dollars. Degree of Master of Arts and diploma, five dollars.

Many students board in clubs at a cost of from $2.00 to $2.25 per week. Excellent boarding can be obtained in private families, or at the table of the Bucknell Academy at $3.00 per week. Washing is done at 25 cents per week. No boarding is allowed in the College Buildings. It will be a matter of economy to bring some articles of furniture, especially bedding and carpets, from home. The dimensions of the study rooms are twelve by twelve feet; of the dormitories, twelve feet by six feet; of the bedsteads, seventy-five inches by thirty inches.

For information respecting the College, address the President, John H. Harris, PH.D.

FORTIETH

ANNUAL COMMENCEMENT,

Wednesday, June 25, 1890.

HONORS AT GRADUATION.

The Latin Salutatory : William Musser Courson.
The Valedictory Addresses : James Harry Haslam.

ORATIONS OF THE FIRST CLASS.

James Harry Haslam,
Willard Carey MacNaul,
John Irven Woodruff,
William Musser Courson,
Eveline Judith Stanton,
Richard Lloyd Schroyer.

ORATIONS OF THE SECOND CLASS.

William Farrow, Jr.

MASTER'S ORATION.

Howard Lincoln Calder, A.M., Harrisburg.

DEGREES CONFERRED.

I. IN COURSE.

BACHELOR OF ARTS.

William Musser Courson,
James Harry Haslam,
Willard Carey MacNaul,
John Irven Woodruff.

BACHELOR OF PHILOSOPHY.

William Farrow, Jr.,
Richard Lloyd Schroyer.
Eveline Judith Stanton.

BACHELOR OF SCIENCE.

Joseph Sutton Young.

MASTER OF ARTS.

Howard Lincoln Calder, Esq.,
James Benjamin Cawley,
George Fish Clark, M.D.,
Justin Loomis Gundy,
Walter Scott Harley,
Rev. Miles Oscar Noll.
John Gundy Owens,
Edwin Paul,
Frances Mary Rush,
Rev. William Edward Staub,
Jacob William Albert Young.

II. HONORARY.

MASTER OF ARTS.

Joseph Roberts Clausen, M.D.,
Edmund LeBreton Godfrey, M.D.

DOCTOR OF DIVINITY.

Rev. Leroy Stephens, A.M. Class of '68.

THE ACADEMY.

INSTRUCTORS AND OTHER OFFICERS.

JOHN HOWARD HARRIS, PH.D.,
PRESIDENT OF THE UNIVERSITY.

WILLIAM EMMET MARTIN, A.M., PRINCIPAL,
HISTORY, LATIN AND RHETORIC.

THOMAS FRANKLIN HAMBLIN, A.M.,
GREEK AND SCIENCE.

ALBERT BURNS STEWART, A.M.,
LATIN AND MATHEMATICS.

LINCOLN HULLEY, A.B.,
ENGLISH AND SCIENCE.

ADA CARLTON GROOM, A.B.,
ELOCUTION.

MRS. ANNIE M. BLACK,
MATRON.

WILLIAM CHRISTIAN GRETZINGER, PH.B.,
REGISTRAR OF THE UNIVERSITY, AND SUPERINTENDENT OF GROUNDS AND BUILDINGS.

Students.

THE FOURTH FORM.

NAME.	RESIDENCE.	ROOM.
EZRA ALLEN,	*Coudersport.*	No. 11, West Wing.
DONALD THOMPSON BAKER,	*Lewisburg.*	Mrs. S. J. Baker.
HERBERT KEELEY BOWER,	*Lewisburg.*	Mr. A. E. Bower.
CHARLES FRANKLIN HALL,	*Philadelphia.*	Mr. Norman Ball.
WILLIAM THEOPHILUS HARRIS,	*Frankford.*	No. 20, East Hall.
ALFRED HAYES, JR.,	*Lewisburg.*	Hon. Alfred Hayes.
WILLIAM ALBERT KAUFFMAN,	*Strode's Mills.*	No. 12, East Hall.
EDWARD GRIDLEY KENDALL,	*Lewisburg.*	Rev. J. L. Kendall.
IRA CLAYTON LEEDOM,	*Southampton.*	No. 29, West Wing.
ANDREW GREGG LOOMIS,	*Lewisburg.*	Dr. J. R. Loomis.
KATE IRENE McLAUGHLIN,	*Lewisburg.*	Mr. G. Y. McLaughlin.
ANDREW REED McNITT,	*Siglerville.*	No. 12, Main Hall.
SARA MERRIMAN,	*Lewisburg.*	Rev. J. R. Merriman.
DAVID PHILLIPS,	*Plymouth.*	No. 13, West Wing.
LOUIS JOHN RICHARDS,	*Priceburg.*	No. 28, West Wing.
*HARRY ELWOOD SHALTER,	*Limestoneville.*	No. 11, Main Hall.
FRANKLIN ISAAC SIGMUND,	*Philadelphia.*	No. 5, West Wing.
DAVID ATKINSON SOLLY,	*Philadelphia.*	No. 9, East Hall.
GEORGE ALEXANDER SPRATT,	*Coatesville.*	No. 16, East Hall.

*Deceased.

THE THIRD FORM.

NAME.	RESIDENCE.	ROOM.
VOORHEES SCHENCK ANDERSON,	*Camden, N. J.*	No. 15, East Hall.
ORVILLE ELIAS BAILEY,	*Washington, D. C.*	No. 14, East Hall.
PHILIP PONTIUS BAKER,	*Lewisburg.*	Mrs. S. J. Baker.
LEANDER WILBUR BALDWIN,	*Colmar.*	No. 20, West Wing.
CHARLES JAMES BERGER,	*Philadelphia.*	No. 22, West Wing.
ORISON EPHRAIM BISHOP,	*Athens.*	Mr. J. A. Owens.
HARRIS BOWER,	*Middleburg.*	President Harris.
WILLIAM HENRY BUCHER,	*Sunbury.*	Mr. James Weiser Bucher
ALFRED HENRY CATTERALL,	*Port Allegany.*	No. 15, West Wing.
HARRY THOMAS COLESTOCK,	*Crooked Creek.*	No. 14, West Wing.
ALEXANDER DOUGLAS,	*Philadelphia.*	No. 22, West Wing.
ELWOOD TYSON HADDOCK,	*Media.*	No. 21, West Wing.
WILLIAM ELMER HALL,	*Philadelphia.*	Mr. Norman Ball.
HERBERT FREDERIC HARRIS,	*Lewisburg.*	President Harris.
THOMAS LEWIS JOSEPHS,	*Lindsey.*	No. 20, East Hall.
FRANCIS JOSEPH LUKENS,	*Germantown.*	No. 15½, West Wing.
ROBERT BURNS McCAY,	*Northumberland.*	Mary A. McCay, M.D.
FRANK BARRON MILLER,	*Lewisburg.*	D. B. Miller, Esq.
HARRY WARREN NICE,	*Philadelphia.*	No. 10, Main Hall.
WALLACE FRANKLIN OSWALD,	*Lewisburg.*	Mr. S. Oswald.
LOUIS H. RYON,	*Shamokin.*	No. 12, East Hall.
GRANTHAM ISRAEL TAGGART,	*Savannah, Ga.*	No. 10, East Hall.
CHARLES WEBSTER,	*E. New Market, Md.*	No. 13, East Hall.

THE SECOND FORM.

NAME.	RESIDENCE.	ROOM.
THOMAS CLARK BABB, JR.,	*West Chester*	Mr. G. C. Kelly,
KURTZ CROOK BUCKINGHAM,	*Lewisburg.*	Mrs. E. Buckingham.
AMOS KAPP DEIBLER,	*Deiblers'.*	No. 21, West Wing.
ALFRED JOEL FEIGHT,	*Lewisburg.*	No. 8, Main Hall.
ELMER ELLSWORTH FREEMAN,	*Lewisburg.*	Mrs. Ann Freeman.
JOHN MOORE GUNDY,	*Lewisbury.*	Mr. J. A. Gundy.
GEORGE LEWIS MEGARGEE,	*Coatesville.*	No. 19, East Hall.
HARRY BINGHAM MEYERS,	*Philadelphia.*	No. 18, East Hall.
CLEMENT KEEN ROBB,	*Philadelphia.*	No. 17, East Hall.
JOHN CLIFFORD SHUCK,	*Mazeppa.*	Mr. Shuck.
ALBERT SOBER,	*Shamokin.*	No. 14, East Hall.
HERMON LEACH VAN VALKENBURG,	*Trout Run.*	No. 17, East Hall.
ROLAND WEBSTER,	*E. New Market, Md.*	No. 13, East Hall.
WILLIE ALBERT WILKINSON,	*Westmont, N. J.*	No. 9, East Hall.
AMOS THOMAS WILLIAMS,	*Ridgway.*	No. 12, Main Hall.
JOHN McCALMONT WILSON,	*Bradford.*	Mrs. W. R. Funk.

THE FIRST FORM.

NAME.	RESIDENCE.	ROOM.
WILLIAM BARR CROFT,	*Lewisburg.*	Mr. Thomas Croft.
FRANK HOMER GREENE,	*Huntingdon.*	No. 11, Main Hall.
THOMAS DAVIS HASLAM,	*Media.*	No. 4, East Hall.
JAMES BROWN MARTIN,	*Lewisburg.*	Prin. Wm. E. Martin.
DAVID HOMER McNITT,	*Reedsville.*	No. 3, Main Hall.

NAME.	RESIDENCE.	ROOM.
JOSIAH W. RICHARDS,	*Summit Hill.*	No. 5, Main Hall.
URIAH ROBERT SWENGEL,	*Lewisburg.*	Rev. E. Swengel.
DAVID JOHN THOMAS,	*Karthaus.*	No. 5, Main Hall.
ROSSER THOMAS,	*Karthaus.*	No. 5, Main Hall.
HUGH CARTWRIGHT WILLIAMS,	*Ashland.*	No. 31, West Wing.

PURSUING SELECT STUDIES.

NAME.	RESIDENCE.	ROOM.
WILLIAM ATWOOD CLEES,	*Montandon.*	Mrs. A. T. Clees.
WILLIAM STERRETT CLINGAN,	*Lewisburg.*	Mr. Wm. Clingan.
EDWARD McVITTY GREENE,	*Saltillo.*	No. 10, East Hall.
LEWIS JACOB KEISER,	*Lewisburg.*	Mrs. Keiser.
BOYD WARDLE KINPORTS,	*Grant.*	No. 8, East Hall.
WILLIAM D. KINSLOE,	*Newton Hamilton.*	No. 8, East Hall.
ALBERT DANIEL LAWTON,	*Shamokin.*	No. 4, East Hall.
MORGAN FREDERICK MOUNT.	*Washington, D. C.*	No. 12, East Hall.
CHARLES DEITZ POWELL,	*Coatesville.*	No. 16, East Hall.
LEON WESEMAN RICHARD,	*Wellsboro.*	No. 4, Main Hall.
DeLa. G. ROMBACH,	*Watsontown.*	No. 14, East Hall.
ROBERT CALDWELL RUCKMAN,	*Helena, Texas.*	Mrs. E. R. Sheller.
HARRY WALTER SHIPE,	*Sunbury.*	Mr. M. Shipe.
SIBERT IRVING STRAYER,	*Lewistown.*	No. 21, West Wing.
HARRY HAMILTON THOMSON,	*Muncy.*	No. 11, East Hall.
JAMES WELLS VAN VALZAH,	*Hughesville.*	No. 19, East Hall.
PETRUS ALFRED WAHLEEN,	*McKeesport.*	Mr. H. McKinty.

NAME.	RESIDENCE.	ROOM.
HOWARD JONES WILLIAMS,	*Ashland.*	No. 4, Main Hall.
JOHN BEMUS WOODARD,	*Bradford.*	No. 14, East Hall.

SUMMARY.

The Fourth Form	19
The Third Form	23
The Second Form	16
The First Form	10
Pursuing Select Studies	19
Total in Academy	87
In other Departments	239
Total in all Departments	326

Courses of Study.

The Academy is designed to fit pupils for College, for Teaching, or for Business. It affords two Courses of Study:

I. **The Classical Preparatory Course** extends through four years and is arranged to meet the requirements for admission to College. The study of Latin begins with the Second Form and continues for three years. The study of Greek begins with the Third Form and continues for two years. Notwithstanding the time given to these important branches of study, fully one-half of the time of the entire course is devoted to English, Historical, Mathematical, and Scientific subjects.

II. **The Scientific Preparatory Course** extends through four years and furnishes adequate preparation for either division of the Scientific Course in College. The First and Second Forms of the Classical and the Scientific Courses are identical. In the Third and Fourth Forms, the student preparing for the Latin Division substitutes Historical and Scientific subjects for the Greek of the Classical Course; while the student preparing for the Greek Division substitutes the Greek of the Third and Fourth Forms for the Latin and includes the Historical and Scientific subjects.

Students may enter that Form which they are prepared to pursue with profit.

Students who are able to accomplish more work in the allotted time than is required by the Classical Course are encouraged to add the special studies of the Scientific Course. They may also pursue extra honor work in the Classics by reading, under an instructor's direction, Cæsar's Civil War, Cicero's Letters, or Sallust, and Books IV, V, VI of the Iliad, or the Hellenica.

Students who are preparing for the English Scientific Course in College can elect the necessary studies from the regular Curricula of the Academy.

Students who do not intend to enter College, but who desire a comprehensive academic training will find the Scientific Preparatory Course, with Latin, well adapted to prepare them for teaching or for business.

Transient students may elect such studies as they are qualified to pursue from the studies in actual progress in any given Term.

Curricula.

I. CLASSICAL PREPARATORY COURSE.

First Form.

I. Term—Arithmetic,	Wentworth,
English Grammar,	Outlines and Exercises,
Geography,	Appleton.
II. Term—Arithmetic,	Wentworth,
English Grammar,	Outlines and Exercises,
History of the United States,	Barnes.
III. Term—Arithmetic,	Wentworth,
English Grammar,	Whitney's Essentials,
History of The United States,	Barnes.

Second Form.

I. Term—Higher Arithmetic,	Olney's Science,
Latin—Lessons,	Tetlow,
Grammar,	Allen and Greenough,
Physical Geography,	Appleton.
II. Term—Book-keeping,	Bryant,
Latin—Lessons,	Tetlow,
Grammar,	Allen and Greenough,
History of Greece,	Smith's Smaller.
III. Term—Rhetoric,	Hill's Elements,
Cæsar's Commentaries,	Kelsey,
History of Rome,	Smith's Smaller,
Elementary Botany,	Gray.

Third Form.

I. Term—Algebra,	Sheldon's Elements,
Cæsar's Commentaries,	Kelsey,
Greek Lessons,	Boise and Pattengill,
Grammar,	Hadley-Allen.
II. Term—Algebra,	Sheldon's,
Vergil's Æneid,	Greenough.
Greek—Lessons,	Boise and Pattengill,
Grammar,	Hadley-Allen.
III. Term—Natural Philosophy,	Sharpless and Philips,
Vergil's Æneid,	Greenough
Xenophon's Anabasis,	Kelsey.

Fourth Form.

I. Term—	Algebra, Quadratics,	Sheldon,
	Latin—Vergil's Æneid,	Greenough,
	Prosody,	Allen and Greenough,
	Xenophon's Anabasis,	Kelsey.
II. Term—	Plane Geometry,	Wentworth,
	Latin—Cicero's Orations,	Allen and Greenough,
	Prose Composition,	Collar,
	Homer's Iliad,	Seymour.
III. Term—	Plane Geometry,	Wentworth,
	Cicero's Orations,	Allen and Greenough,
	Greek—Homer's Iliad,	Seymour,
	Prose Composition,	Jones.

II. SCIENTIFIC PREPARATORY COURSE.

First Form.

I. Term—	Arithmetic,	Wentworth,
	English Grammar,	Outlines and Exercises,
	Geography,	Appleton.
II. Term—	Arithmetic,	Wentworth,
	English Grammar,	Outlines and Exercises,
	History of the United States,	Barnes.
III. Term—	Arithmetic,	Wentworth,
	English Grammar,	Whitney's Essentials,
	History of the United States,	Barnes.

Second Form.

I. Term—	Higher Arithmetic,	Olney's Science,
	Latin—Lessons,	Tetlow,
	Grammar,	Allen and Greenough,
	Physical Geography,	Appleton.
II. Term—	Book-keeping,	Bryant,
	Latin—Lessons,	Tetlow,
	Grammar,	Allen and Greenough,
	History of Greece,	Smith's Smaller.
III. Term—	Rhetoric,	Hill's Elements,
	Cæsar's Commentaries,	Kelsey,
	History of Rome,	Smith's Smaller,
	Elementary Botany,	Gray.

Third Form.

I. Term—	Algebra,	Sheldon's Elements,
	Cæsar's Commentaries,	Kelsey,
	History of England,	Guest.
II. Term—	Algebra,	Sheldon,
	Vergil's Æneid,	Greenough,
	Astronomy,	Sharpless and Philips.

III. Term—Natural Philosophy,	Sharpless and Philips,
Vergil's Æneid,	Greenough,
Physiology,	Walker.

Fourth Form.

I. Term—Algebra, Quadratics,	Sheldon,
Latin—Vergil's Æneid,	Greenough,
Prosody,	Allen and Greenough,
English Literature,	Outlines.
II. Term—Plane Geometry,	Wentworth,
Latin—Cicero's Orations,	Allen and Greenough,
Prose Composition,	Collar,
Civil Government,	Cocker.
III. Term—Plane Geometry,	Wentworth,
Cicero's Orations,	Allen and Greenough,
Geology,	Le Conte.

Methods of Instruction.

The Preparatory Curriculum naturally falls into six principal lines of study, viz: English, Latin, Greek, History, Mathematics, and Natural Science. These combine, in due proportion, the cultural, the disciplinary and the practical elements of intermediate education. The two great divisions of modern study, the Classical and the Scientific, are accorded adequate and appropriate preparation. The subjects, facilities and methods of the various departments are explained below.

I. THE ENGLISH LANGUAGE

A thorough grounding in the principles of English Grammar is indispensible to the student's progress in the subsequent language studies. The continuous application of this knowledge in Composition, and the constant comparison with the forms and idioms of the Ancient Languages, prepare the way for the study of elementary Rhetoric, and the appreciative reading of English and American Literature. The aim is the clear, elegant and forcible use of the mother tongue as the chief instrument of expression.

II. THE LATIN LANGUAGE.

The Inductive Method is used in the elementary instruction. The student investigates the formation of the language. The abstract rules of Syntax are learned from the analysis and synthesis of sentences. Careful drill is given in the declensions and conjugations, the use of the moods and the sequence of tenses, in the ready reading of the Latin text, in sight reading and in accurate translation into idiomatic English. Attention is given to the important personal, historical and political elements in the writings of Cæsar and Cicero. In Vergil, the student is introduced to the poetry, legend, religion, philosophy and art of Rome. He is taught to investigate the allegorical, archæological and mythical allusions of the Æneid, and to appreciate it as the mirror of the life of the Empire. Latin prosody is taught first from the text, and then from the grammar.

III. THE GREEK LANGUAGE.

The first half year of the Third Form is spent in acquiring sufficient knowledge of forms and inflections to commence the study of Xenophon's Anabasis. During the last half year, special attention is given to the inflection and syntax of nouns, pronouns and adjectives. The reading of Xenophon is continued in the first term of the Fourth Year, and the forms and syntax of verbs made a special study. Homer is then read for one term and a half, and the difference between Homeric and Attic forms is noted. During the last half term, Xenophon is reviewed, that the student may refresh his knowledge of Attic Greek, and may not find the transition to College needlessly difficult. Almost daily drill is given in turning into Greek, sentences based on the text of Xenophon. This work is considered fully equivalent to Jones' Prose Composition.

IV. HISTORY.

The course in History includes a survey of the History of the United States, England, Greece and Rome. The aim is not so much to fill the student's mind with a collection of dates, events and personages, as to acquaint him with the life, the genius, the institutions and the achievements of the respective peoples, and their part in the wider history of humanity. Students are encouraged to cultivate the historical imagination; to compare race characteristics, arts and religions; and to appreciate the noble ideals, the heroic struggles and sacrifices, that have imparted imperishable worth to human institutions.

Civil Government is taught as a preparation for intelligent citizenship. The origin and growth of our institutions, the functions of the various departments of the National, State and local government; the political history of the people; the interpretation and construction of the Constitution, are clearly presented and discussed.

V. MATHEMATICS.

Arithmetic.—To students who are fitting themselves for business, a course is given in practical business Arithmetic, involving all the ordinary problems and practices in the business world. To those who are preparing for College or for teaching, instruction is given in the theory and science of Arithmetic. Pupils are expected to master the principles and then to formulate their own rules.

Algebra—The course extends through one period daily for one year, and includes a thorough knowledge of the fundamental principles, Factoring, Divisors and Multiples, Fractions, Equations, Involution, Evolution, Theory of Exponents, Radicals and Quadratic Equations. Daily black-board work serves to apply the principles taught. The student is required both to know the methods of the solution of problems and also to explain the operation to the class.

Plane Geometry.—The instruction consists of daily recitations for two terms on the Theorems and Problems given in the text book, with original demonstration of the same Propositions by the students, from hints and figures given in the class-room. Besides this, considerable attention is given to the solution of original Propositions, and the application of principles thus learned to the solution of numerical problems.

Book-Keeping.—A practical introduction to the science of accounts is secured in the term devoted to mastering the principles of Double Entry Book-Keeping. Careful attention is given to business forms, to the usages of Banks, and to the elements of Commercial Law. The subject may be pursued in its more extended and intricate applications by a second term's work, open to properly qualified students.

VI. SCIENCE.

Physical Geography lays a broad foundation for subsequent work in all sciences. It surveys the earth's physiography, climate, atmosphere, fauna, flora, ocean tides and currents, and geological agencies. Special attention is given to the physical features of the United States. The text is illuminated by drawings, photographs, colored and relief maps, and specimens from the Museum.

Botany is taught by text-book, field exercise, plant analysis and weekly lectures. A brief outline is first obtained of plant structure, physiology, growth, and reproduction. The subject is then reviewed by daily drill in analyzing, recording, classifying, and preserving specimens. The recorded analysis of fifty plants is required. Lectures explaining special forms of vegetable growth, the flora of this country, the cultivation, uses, and history of plants complete the work.

Physiology.—Every effort is made to impart clear ideas of the structure, parts and functions of the human body. Special attention is given to the chemistry of

foods, the laws of health, the effects of stimulants and narcotics. Suggestions are constantly made as to poisons and their antidotes, the care of the sick, disinfection and sanitation, and accidents and emergencies. Charts, manikin and preparations are used in class.

Natural Philosophy.—The student is thoroughly grounded in the elements of mechanics and physics. The apparatus of the College laboratory is available for use. The historical beginnings of each subject, and subsequent development, are sketched in brief lectures. No pains are spared to familiarize the pupil with the laws of these sciences, by instruction, experiment, review, and repeated examination. The truth of principles is proved, except where the demonstration involves the mathematics of the higher course in college.

Astronomy.—Descriptive Astronomy discusses the earth's relation to the solar system, the masses, motions and orbits of each member of it; the causes and consequences of at least five motions of the earth; general boundaries of the constellations of the Zodiac and Northern heavens; the accepted theories of comets, meteors and nebulæ. Charts, star maps, globes, and other apparatus, are used, and the student is afforded privileges of observation in the College observatory.

Geology.—The student here masters the elements of lithological, structural, dynamic, and historical Geology. Specimens of various rocks and minerals are handled in class; their composition, characteristics and place in nature are explained; the structure of the earth in its present form is studied; the history of its evolution, the age and characteristics of its strata, the chief geological features of each continent, and the forces at work, and that have worked to produce change are considered.

VII. ORATORY.

Class Exercises.—Members of the Fourth Form prepare and deliver two original orations each term. All other students have regular exercises in Composition and Declamation throughout the year. These exercises are held in Bucknell Hall on Saturday mornings, before the assembled faculties and students of the Institute and the Academy. Visitors are cordially welcomed to these exercises.

In addition to the private rehearsals for the work above indicated, all students receive weekly instruction in Elocution. The course includes careful drill in the Elementary Sounds, in Articulation, and in Expression; Analytical Reading, including the Bible and Hymns, and the study of Shakespeare.

Special individual instruction in Elocution is offered at fifty cents a lesson.

VIII. SPECIAL BRANCHES.

Bible Study.—The study of the Bible is pursued as a regular weekly recitation throughout the Second, Third and Fourth Forms, in both courses of study. Smith's Smaller Scripture Book is the text-book used. The Second Form have recitations covering the sacred narrative from Genesis to Judges; the recitations of the Third Form complete the Old Testament; those of the Fourth Form complete the New Testament.

Literature Study.—The reading and study of the masterpieces of English and American Literature is maintained in the Second, Third and Fourth Forms by weekly conferences.

The Study of Music may be pursued by Academic students under the instruction of Professor E. Aviragnet and his Assistants of the Institute of Music.

Drawing.—All students of the Academy may receive throughout the year weekly lessons in Free-hand Drawing. Special individual instruction in Drawing is afforded at twenty-four dollars per annum.

PUBLIC EXHIBITIONS.

THIRD FORM.

The Public Exhibition of the Third Form in Declamation will take place on Saturday evening, April 25, 1891, in Commencement Hall.

FOURTH FORM.

The closing exercises of the Academy will be the Public Exhibition of the Fourth Form in Oratory, on Tuesday morning, June 23d, 1891.

General Information.

ADVANTAGES.

To the student seeking preparation for College, the Academy offers unusual inducements. Its proximity to the College secures to him an atmosphere of study, acquaintance with the guides and companions of his future course, and the benefit of numerous literary exercises to be found only in College towns. He has access to the College Library and Reading-room. The Academy is designed to fit its pupils thoroughly for College, for Business, or for Teaching. It aims to lay broad and solid foundations for all subsequent scholarly culture, and for the successful conduct of every-day affairs.

GOVERNMENT.

Students are encouraged to regard self-government as the only true government. It will be the constant endeavor to secure uprightness of character, gentlemanly deportment, and diligent application to work, by kind treatment, and high standards in conduct and study. The Academy cannot knowingly accept or retain incorrigibles.

I. ADMINISTRATION.

1. The general control of the Academy is vested in the President of the University.

2. The government of the Academy, subject to such control, rests with the Principal of the Academy.

3. The government of each Hall is vested in the Professor in Charge, who resides in the Hall and enforces such regulations as are herein enacted for the regulation of the Hours of Study, Academy Property, Hygienic Precautions and general Deportment, and such other prudential regulations as may be ordered by the joint concurrence of the President of the University and the Principal of the Academy.

4. Each Professor will have charge of his class with reference to attendance upon recitations. In case any student is absent twice in any one term, without good excuse, from recitations, or from his room in the evening after the hour of seven, it shall be the duty of the Principal of the Academy to give information of the fact to the Parent or Guardian of the pupil so offending.

II. VIOLATION OF RULES.

1. Any officer of the Institution becoming cognizant of violation of regulations by any pupil shall report the same to the Principal of the Academy who shall make a record of the fact in a book provided for the purpose. Any second violation by the same pupil shall also be reported to the President of the University; and if, in the judgment of the President of the University, and the Principal of the Academy, the offence be of sufficient gravity, the Parent or Guardian of the offending pupil shall be notified.

2. Violations of these and other prudential regulations shall be punished by pri-

vate reprimand, or by reprimand in the presence of the students of the Academy by the Principal, or by reprimand before the University by the President, or by suspension, or by expulsion, according to the gravity or repetition of the offense.

BUILDINGS AND ROOMS.

The Academy Buildings are described in detail under the "University Property," in the introductory pages of this Catalogue.

The Main Building contains, besides its accommodations for other school and boarding purposes, furnished rooms for twenty students. These rooms are designed to accommodate two students each, and are twenty feet by twelve feet, by fourteen feet high. They are sub-divided into a study room twelve feet by ten feet, and a dormitory nine feet square. The dormitory contains a double bed with woven wire mattress. Both rooms are provided with all necessary furniture.

The New East Hall contains combined study and sleeping rooms, each designed for two students. These rooms are fifteen feet by twelve feet, with high ceilings; and contain two commodious closets and two single wire-mattress beds, with all necessary furniture.

UNFURNISHED ROOMS

The Academy has at its disposal a number of unfurnished rooms in the West Wing of the College Building, for the accommodation of students of mature years and of limited means. No attention by servants is given to these rooms, nor are lights supplied. Two students occupy a study room in common, but each has a separate dormitory. The dormitories are provided with a single new spring bedstead. All other furnishing is to be done by the occupants. While second-hand articles of furniture may be obtained here, it will be to the student's advantage to bring from home bedding and carpets. The dimensions of the study rooms are twelve feet by twelve feet; of the dormitory, twelve feet by six feet; of the bedsteads, seventy-five inches by thirty inches. These rooms are rented by the Registrar of the University.

BOARDING.

All students from a distance will occupy rooms and will board in the Academy, except for reasons jointly satisfactory to the President of the University and the Principal of the Academy.

The Principal and his family, the Instructors and the Matron live in the building, take their meals with the boarders, and strive in all possible ways to secure the welfare and happiness of the students. The Instructors occupy rooms adjacent to the students' apartments. The appointments of the Dining Room, the character of the table supplies, the household service in general, are designed to furnish the comforts of a first-class boarding house. So far as may be warranted by the gentlemanly deportment of the students, there will be absent from the home life of the school all needless uniformity and irksome limitations, which disregard the reasonable individual preferences of pupils.

The Academy gives to furnished rooms daily and complete attention, provides and washes all bedding and bed clothing, and supplies and cares for all lights.

Pupils over twenty years of age may room in the College Building, and in that case will be subject to the same restrictions as College students.

Engagements for board and rooms are expected to continue without change to the end of the school year for which they are made.

APPLIANCES.

The Academy is in possession of excellent apparatus for instruction. A select Reference Library, containing an Encyclopedia, Lexicons, Dictionaries, Atlases, and various other helps, is accessible to students at all hours. The Classical Recitation Room is provided with Kiepert's Wall-Maps of Ancient Geography, and with Reinhard's Album of Classical Antiquities, mounted. Metric apparatus, Maps, and Globes render assistance in other directions.

The Physical apparatus of the College also is accessible to the class in Natural Philosophy for purposes of experiment and illustration.

The books of the College Library are available for all students.

HOURS.

The time devoted to study and recitation amounts to 9¼ hours every week-day except Saturday, when it is only 1¼ hours. This time should be sacred to its purpose. Parents of day pupils are requested to coöperate with the school in securing attention to evening study hours, and to avoid furnishing excuses or granting occasions for absences.

Students from a distance should be in Lewisburg on the day preceding the opening of each term, and no student should leave until the term shall have closed. Punctuality in attendance is essential to success in school work.

For terms and vacations see the Calendar of the University.

STANDING AND PROMOTIONS.

The weekly averages of marks for recitations are recorded, and also failures in conduct and attendance. The scale for such markings ranges from 10, or perfect, to 0, or inexcusable failure. Unexcused absences count as zeros.

Monthly and Term Examinations are held in the studies thus far completed, and quarterly reports of the average in scholarship, attendance, and conduct of each student are sent to parents or guardians by the Principal.

No student is promoted to the next higher class whose average in any study is less than 7. A review of the study and a satisfactory examination will be necessary to secure the advanced standing desired.

Students who complete the Preparatory Courses of Study are admitted to standing in corresponding divisions of the Freshman Class in the College, upon the Principal's certificate, without separate examination.

All students who complete in a satisfactory manner either the Classical or the Scientific Course of study, and who have sustained irreproachable characters during their school residence, shall be entitled to a certificate setting forth their proficiency in the branches studied.

Students attaining an average standing of 9 are encouraged to devote spare time to work additional to the Regular Courses of Study. Honorable Mention is accordingly awarded to Alfred Hayes, Jr., and Andrew Gregg Loomis, of the Fourth Form, for examination sustained with Instructor Hamblin in Herodotus, and to Alfred Hayes, Jr., for examination sustained with Instructor Stewart, in Sallust's Catiline.

PRIZES.

THE HARRY S. HOPPER PRIZE.

For the year 1890–91, Mr. Harry S. Hopper, of Philadelphia, Chairman of the Board of Trustees, offers a prize of ten dollars for excellence in composition.

This prize for 1890 was awarded to Raymond John Davis.

THE REV. D. P. LEAS PRIZE.

Rev. David P. Leas, of Philadelphia, Treasurer of the Bucknell University, offers an annual prize of ten dollars to that member of the Third Form who shall excel in the annual Exhibition of the Third Form in Declamation.

This prize in 1890 was awarded to Louis John Richards.

THE PRINCIPAL WILLIAM E. MARTIN PRIZE.

Principal William E. Martin offers an annual prize of ten dollars to that member of the Fourth Form who shall pronounce the best oration at the Academic Graduating Exhibition.

This prize for 1890 was awarded to Theodore Heysham.

THE REGISTRAR'S PRIZE.

For the year 1889–90 Mr. William C. Gretzinger, Registrar of the University, offered a special prize of ten dollars to that member of the Fourth Form who should write the best essay upon a scientific topic. The topic was "The Gardens of the Sea." The prize was awarded to Charles Franklin McMann.

LITERARY SOCIETIES.

Hermenia ; Adelphia.—These are voluntary organizations of students for mutual improvement in Literary and Oratorical exercises. They have large and convenient halls in the Academy building, where they hold their meetings on Friday evenings.

RELIGIOUS SERVICES.

The duties of each day are opened with devotional exercises in Bucknell Hall, at which all students are required to be present.

Regular attendance upon public worship at some Church in town on Sunday morning, is required ; also upon services on Thanksgiving Day, and the Day of Prayer for Colleges. Attendance upon Sunday School, and mid-week Prayer Meetings, while voluntary, is strongly urged upon students.

The Academic students maintain a branch of the Young Men's Christian Association, which holds a weekly prayer-meeting on Tuesday evenings.

EXPENSES.

	Per Annum.
Tuition, Board, Furnished Rooms, Fuel, Lights, Care, Washing, and Incidentals,	$225 00
Tuition, Board, Unfurnished Rooms, Fuel, Washing and Incidentals,	180 00
Tuition, Fuel and Incidentals to Day Pupils,	50 00

All charges are payable to the Registrar of the University in advance, at the be-

ginning of each term ; or by the 15th of September, January, and April.

No student is entitled to his place in his class until he has made settlement for the term bills.

If a student occupy a study by himself, the charges for room-rent and private fuel will be doubled.

Young men of good character and earnest purpose, but not possessing sufficient means to obtain an education, are invited to correspond with the Principal.

Free scholarships covering tuition are provided in all the Departments of the University for the children of Ministers of the Gospel *in actual service.*

The expenses for Music and Printing for Exhibitions and Anniversary occasions are paid by the classes for which such expenses are incurred.

For information respecting the Academy, address the President of the University, John H. Harris, PH.D., or the Principal, William E. Martin, A.M.

THE INSTITUTE.

INSTRUCTORS AND OTHER OFFICERS.

JOHN HOWARD HARRIS, PH.D.,
PRESIDENT OF THE UNIVERSITY, AND INSTRUCTOR IN PSYCHOLOGY AND ETHICS.

MRS. KATHERINE B. LARISON, A.M., PRINCIPAL,
AND INSTRUCTOR IN LITERATURE.

CORNELIA CONANT BRONSON,
LATIN AND GERMAN.

ADA CARLTON GROOM, A.B.,
ELOCUTION AND GYMNASTICS.

FRANCES MARY RUSH, A.M.,
ENGLISH AND MATHEMATICS.

ELYSEE AVIRAGNET, A.M.,
VOCAL AND INSTRUMENTAL MUSIC AND MODERN LANGUAGES.

MARGARET WELLS,
INSTRUMENTAL MUSIC.

CANDACE WOOD,
DRAWING AND PAINTING.

WILLIAM GUNDY OWENS, A.M.,
CHEMISTRY.

THOMAS FRANKLIN HAMBLIN, A.M.,
GEOLOGY AND CIVIL GOVERNMENT.

LINCOLN HULLEY, A.B.,
NATURAL PHILOSOPHY AND ASTRONOMY.

WILLIAM CHRISTIAN GRETZINGER, PH.B.,
REGISTRAR OF THE UNIVERSITY, AND SUPERINTENDENT OF GROUNDS AND BUILDINGS.

MRS. FLORENCE V. MACDONALD,
MATRON.

Directory of the Alumnæ.

OFFICERS OF THE GENERAL ALUMNÆ.

President,

MRS. M. P. TUSTIN.

Vice-President,

MRS. J. W. VAN VALZAH.

Recording Secretary,

MISS MARY McLAUGHLIN.

Corresponding Secretary,

MRS. WM. C. GRETZINGER, Lewisburg, Pa.

Treasurer,

MISS MARY L. THOMAS.

Board of Managers :

THE OFFICERS OF THE ASSOCIATION, AND MRS. KATHERINE B. LARISON AND MRS. J. R. LOOMIS.

OFFICERS OF THE LEWISBURG ALUMNÆ CLUB.

President,

MISS MARY L. THOMAS.

Vice-President,

MISS ELLEN W. RUSSELL.

Secretary,

MISS ANNA EVANS.

Treasurer,

MISS FLORENCE A. VAN DYKE.

Students.

THE SENIOR YEAR.

NAME.	RESIDENCE.	ROOM.
ANNIE MAY AUSTIN,	*Lewisburg.*	Rev. Charles B. Austin.
EMMA TAYLOR HYMAN,	*Winfield.*	Mrs. Anna Hyman
ANNA LUELLA KERSTETTER,	*Lewisburg.*	Mrs. G. W. Kerstetter.
MARY MONICA KREAMER,	*Rebersburg.*	Institute.
BESSIE HILL MERSHON,	*Lawrenceville, N. J.*	Institute.
PERIE MAY MILLER,	*Altoona.*	Institute.
MAZE ANNA PELLMAN,	*Hartleton.*	Institute.
MARY RACHEL ROGERS,	*Danville.*	Institute.
BLANCHE ADELAIDE SCHREINER,	*Philadelphia.*	Institute.
MABEL SCHREINER,	*Philadelphia.*	Institute.
BERTHA MAY SHIRLEY,	*Moore's.*	Institute.
KATHERINE WITTENMYER,	*Middleburg.*	Institute.
MARY MOORE WOLFE,	*Lewisburg.*	Hon. C. S. Wolfe.

THE FOURTH YEAR.

NAME.	RESIDENCE.	ROOM.
MARY CORA DAVIS,	*Johnstown.*	Institute.
LILLIE CANDACE GROVE,	*Chillisquaque.*	Mrs. S. B. Walter.

NAME.	RESIDENCE.	ROOM.
NELLIE GRANT HAINES,	*Winfield.*	Mr. Anes Haines.
FRANCES COOVER JAUSS,	*Harrisburg.*	Institute.
NELLIE VIOLET JAUSS,	*Harrisburg.*	Institute.
SARAH CATHERINE JOHNSON,	*Lewisburg.*	Mr. E. Shorkley.
CLARA JANE NOETLING,	*Mifflinburg.*	Mrs. M. E. Noetling.
MARY ALICE PECK,	*Scranton.*	Institute.
SARAH SPENCER,	*Dunmore.*	Institute.
MARTHA MARGARET THOMSON,	*Bower.*	Institute.
BERTHA MAY WITTENMYER,	*Middleburg.*	Institute.

THE THIRD YEAR.

NAME.	RESIDENCE.	ROOM.
MARGARET STUART BAKER,	*Lewisburg.*	J. T. Baker, Esq.
KATHERINE PONTIUS BAKER,	*Lewisburg.*	J. T. Baker, Esq.
MARY EMMA BUTLER,	*Montandon.*	Mr. John W. Butler.
ELIZABETH WELLS CLEARWATER,	*Wilcox.*	Institute.
MARY ADA CURRY,	*Uniontown.*	Institute.
MINNIE VIOLA DONACHY,	*Lewisburg.*	Mr. William O. Donachy.
CAROLYN FURMAN,	*Johnstown.*	Rev. A. J. Furman.
LEILA FURMAN,	*Johnstown.*	Rev. A. J. Furman.
MARGARET BELLE KATHERMAN,	*Lewisburg.*	Mr. Emanuel Katherman.
RUTH ESTELLE MILLER,	*Waverly.*	Institute.
ANNA MARGARET PENSYL,	*Elysburg.*	Institute.
LILLIE KATHERINE SCHRACK,	*Lewisburg.*	Mr. James P. Schrack.
SARA DYSART STEWART,	*Tipton.*	Institute.

THE SECOND YEAR.

NAME.	RESIDENCE.	ROOM.
ELIZABETH TOWER BATES,	*Lewisburg.*	Hon. S. D. Bates.
MARY BELL,	*Sabbath Rest.*	Institute.
CLARA ELIZABETH BRUNDAGE,	*Conyngham.*	Institute.
EDITH GENEVA COXEY,	*Philadelphia.*	Institute.
EVA CATHERINE DAVIDSON,	*Union Corner.*	Institute.
NORA MAY GREENE,	*Saltillo.*	Institute.
IDA GERTRUDE GREENE,	*Saltillo.*	Institute.
KATE ESTELLE HILL,	*Milton.*	Hon. C. S. Wolfe.
CORA MAY JOHNSON,	*Lewisburg.*	Prof. R. B. Johnson.
ANNA JULIA KEISER,	*Lewisburg.*	Mr. Wm. Keiser.
MARTHA MASON,	*Milnesville.*	Institute.
EMELINE ELIZABETH PATCHIN,	*Patchinville.*	Institute.
CARRIE ELIZABETH RADEKER,	*Sheffield.*	Institute.
ELLA MAY REESE,	*Fair View Village.*	Institute.
ANNA GERTRUDE SIEBER,	*Lewisburg.*	Rev. L. L. Sieber.
JENETTE RACHEL SNOOK,	*Lewisburg.*	Prof. Wm. G. Owens.
LULA BLANCHE SWENGEL,	*Lewisburg.*	Rev. E. Swengel.
LOTTIE MAY WALTER,	*Lewisburg.*	Mr. C. F. Walter.
HATTIE LAURA WALTER,	*Lewisburg.*	Mr. C. F. Walter.

THE FIRST YEAR.

NAME.	RESIDENCE.	ROOM.
FRANCES MOORE BAKER,	*Lewisburg.*	J. T. Baker, Esq.
MARY HOWARD BAKER,	*Lewisburg.*	J. T. Baker, Esq.
BELLE BARTOL,	*Lewisburg.*	Prof. W. C. Bartol.
MIRIAM ADLUM BUCHER,	*Lewisburg.*	Hon. Joseph C. Bucher.
IRENE CARRIE ELLIS,	*Lewisburg.*	Rev. Wm. Henry Ellis.
MARTHA ANDERSON GOLDY,	*Camden, N. J.*	Institute.
EMILIE HALL,	*Lewisburg.*	Miss C. H. McClure.
EMMA BEULAH HAYES,	*Lewisburg.*	Hon. Alfred Hayes.
MARY MATLACK,	*Lewisburg.*	Mr. George S. Matlack.
JESSIE NORINE MESKIMEN,	*Pittsburg.*	Institute.
AÏDA VIRGINIA MYERS,	*Lewisburg.*	Mr. David Myers.
MARGARET ISABELLE NORTON,	*Lewisburg.*	Mr. Thomas S. Norton.
JANE WINIFRED PATCHIN,	*Patchinville.*	Institute.
MYRA NELL RADEKER,	*Sheffield.*	Institute.
CLARISSA FISHER RUSSELL,	*Lewisburg.*	Mr. T. Frank Russell.

PURSUING SELECT STUDIES.

NAME.	RESIDENCE.	ROOM.
ALICE BELL,	*Bower.*	Institute.
IDA GRABER BOAK,	*Hughesville.*	Institute.
MARTHA FELITZEA BRINING,	*Cochecton Centre, N. Y.*	Institute.
LAURA HAZLETT CUSTER,	*Glenolden.*	Institute.

NAME.	RESIDENCE.	ROOM.
EVA JANE DERR,	*Limestoneville.*	Institute.
CATHERINE IRENE ENGELBERT,	*Lykens.*	Institute.
LULU HENSYL,	*Howard.*	Institute.
MARY ELIZABETH HUTCHINSON,	*Parkersburg, W. Va.*	Institute.
KITTY ELIZA HUTCHINSON,	*Parkersburg, W. Va.*	Institute.
MARY KOONCE,	*Lewisburg.*	Institute.
JUNE KYLE,	*Reedsville.*	Institute.
ELIZABETH LLOYD,	*Phœnixville.*	Institute.
MARGARET MITCHELL McNITT,	*Reedsville.*	Institute.
RHODA McKINNEY McNITT,	*Siglerville.*	Institute.
CARRIE ELIZABETH MENSCH,	*Mifflinburg.*	Institute.
FANNIE BAXTER MONTGOMERY,	*McEwensville.*	Institute.
FLORENCE BERTHA SMITH,	*Lewisburg.*	Mr. J. C. Smith.
MARY ALICE WOODS,	*Williamsport.*	Institute.

The Music Institute.

THE MUSIC CLASS AND ORCHESTRA.

NAME.	RESIDENCE.
Piano.	
MARGARET STUART BAKER,	*Lewisburg.*
BELLE BARTOL,	*Lewisburg.*
LINDA ELIZA BECHNER,	*Lewisburg.*
ELIZA BELL,	*Sabbath Rest.*
MARY BELL,	*Sabbath Rest.*
ELLA BENDER,	*Lewisburg.*
IDA GRABER BOAK,	*Hughesville.*
MAUD VIRGINIA BOWEN,	*Lewisburg.*
FANNIE CASE,	*Lewisburg.*
ELIZABETH WELLS CLEARWATER,	*Lewisburg.*
MARY ADA CURRY,	*Uniontown.*
EVA CATHERINE DAVISON,	*Union Corner.*
EVA JANE DERR,	*Limestoneville.*
CATHERINE IRENE ENGLEBERT,	*Lykens.*
MARTHA ANDERSON GOLDY,	*Camden, N. J.*
MINNIE MAUD GOSH,	*Watsontown.*
NORA MAY GREENE,	*Saltillo.*
IDA GERTRUDE GREENE,	*Saltillo.*
MARY BELLE HARRIS,	*Lewisburg.*
BERTHA HAYMAN,	*Lewisburg.*
BLANCHE HASSENPLUG,	*Lewisburg.*
MAY HULL,	*Milton.*
MARY ELIZABETH HUTCHINSON,	*Parkersburg, W. Va.*
KITTY ELIZA HUTCHINSON,	*Parkersburg, W. Va.*
EMMA TAYLOR HYMAN,	*Winfield.*
FRANCES COOVER JAUSS,	*Harrisburg.*
NELL VIOLET JAUSS,	*Harrisburg.*
JUNE KYLE,	*Reedsville.*
JOSEPHINE LAWSHE,	*Lewisburg.*
MARGARET MITCHELL McNITT,	*Reedsville.*
MARY MATLACK,	*Lewisburg.*
CARRIE ELIZABETH MENSCH,	*Lewisburg.*

NAME.	RESIDENCE.
MARGARET ISABEL NORTON,	*Lewisburg.*
MARY OWENS,	*Lewisburg.*
EMMELINE ELIZABETH PATCHIN,	*Patchinville.*
JANE WINIFRED PATCHIN,	*Patchinville.*
MARY ALICE PECK,	*Scranton.*
CARRIE ELIZABETH RADEKER,	*Sheffield.*
NELL MYRA RADEKER,	*Sheffield.*
ELLA MAY REESE,	*Fairview Village.*
ANNIE SARA SCHRACK,	*Mifflinburg.*
CHARLES GRANT SHAFFER,	*Lewisburg.*
SARA MAY SMIEGH.	*Lewisburg.*
SARAH SPENCER,	*Dunmore.*
ELLA STEBBINS,	*Watsontown.*
SARA DYSART STEWART,	*Tipton.*
LULA BLANCHE SWENGEL,	*Lewisburg.*
KATE PURSELL,	*Lewisburg.*
SARAH WAGNER,	*Lewisburg.*
JULIA MONTGOMERY WIEDENSAUL,	*Lewisburg.*
KATHERINE WITTENMYER,	*Middleburg.*
Pipe Organ.	
EZRA ALLEN,	*Coudersport.*
LINNIE ELIZA BECHNER,	*Lewisburg.*
MARY MONICA KREAMER,	*Rebersburg.*
Vocal.	
IDA GRABER BOAK,	*Hughesville.*
LAURA HAZLETT CUSTER,	*Glenolden.*
LILIAN CANDACE GROVE,	*Chillisquaque.*
BLANCHE HASSENPLUG,	*Lewisburg.*
MARY ELIZABETH HUTCHINSON,	*Parkersburg, W. Va.*
FRANCES COOVER JAUSS,	*Harrisburg.*
NELL VIOLET JAUSS,	*Harrisburg.*
MARY MONICA KREAMER,	*Rebersburg.*
WINIFRED LOIS LYMAN,	*Coudersport.*
CARRIE ELIZABETH MENSCH,	*Mifflinburg.*
RUTH ESTELLE MILLER,	*Waverly.*
ANNIE MARGARET PENSYL,	*Elysburg.*
CARRIE ELIZABETH RADEKER,	*Sheffield.*
SARA DYSART STEWART,	*Tipton.*
Violin.	
KATHERINE PONTIUS BAKER,	*Lewisburg.*
LINNIE ELIZA BECHNER,	*Lewisburg.*
BELLE BARTOL,	*Lewisburg.*
CLARA ELIZABETH BRUNDAGE,	*Conyngham.*
ELLA BENDER,	*Lewisburg.*
ELIZABETH FOLLMER,	*West Milton.*
MARY MONICA KREAMER,	*Rebersburg.*
LOUISE LAWSHE,	*Lewisburg.*

NAME.	RESIDENCE.
HOMER McNITT,	*Reedsville.*
JAMES BROWN MARTIN,	*Lewisburg.*
CHARLES JULIUS MOON,	*Elkland.*
LUCY PETERS,	*Lewisburg.*
CARRIE ELIZABETH RADEKER,	*Sheffield.*
NELL MYRA RADEKER,	*Sheffield.*
FRANKLIN ISAAC SIGMUND,	*Philadelphia.*
SARA MAY SMIEGH,	*Lewisburg.*
GEORGE ALEXANDER SPRATT,	*Coatsville.*
JULIA MONTGOMERY WIEDENSAUL,	*Lewisburg.*
JOHN McCALMONT WILSON,	*Bradford.*
MARY ALICE WOODS,	*Williamsport.*
MARY WOLFE,	*Pottsgrove.*
Viola.	
IDA GERTRUDE GREENE,	*Saltillo.*
Violincello.	
MARGARET STUART BAKER,	*Lewisburg.*
THOMAS STRADLING FRETZ,	*Gardenville.*
SARA DYSART STEWART,	*Tipton.*
Double Bass (contrebasse).	
EZRA ALLEN,	*Coudersport.*
Cornet and French Horn.	
EDWARD McVITTY GREENE,	*Saltillo,*
WARREN STANLEY MARTS,	*Dividing Creek, N. J.*
HERMON LEACH VAN VOLKENBURG,	*Trout Run.*
Harmony.	
MARGARET STUART BAKER,	*Lewisburg.*
LINDA ELIZA BECHNER,	*Lewisburg.*
MAUD VIRGINIA BOWEN,	*Lewisburg.*
CATHERINE IRENE ENGLEBERT,	*Lykens.*
BLANCHE HASSENPLUG,	*Lewisburg.*
SARA MAY SMIEGH,	*Lewisburg.*
JULIA MONTGOMERY WIEDENSAUL,	*Lewisburg.*
MARY ALICE WOODS,	*Williamsport.*

The Art School.

CLASS IN STUDIO.

NAME.	RESIDENCE.
CHARLES AUSTIN,	*Lewisburg.*
ELIZABETH TOWER BATES,	*Lewisburg.*
ELIZA BELL,	*Sabbath Rest.*
VERDIE BOWEN,	*Lewisburg.*
CLARA ELIZABETH BRUNDAGE,	*Conyngham.*
MIRIAM ADLUM BUCHER,	*Lewisburg.*
LAURA HAZLETT CUSTER,	*Glenolden.*
SYBIL WATSON DAUGHERTY,	*Sunbury.*
CATHERINE IRENE ENGELBERT,	*Lykens.*

NAME.	RESIDENCE.
ANNIE EVANS,	*Lewisburg.*
EDITH FURST,	*Lock Haven.*
ELIZABETH FOLLMER,	*West Milton.*
ALICE FRICK,	*Milton.*
MINNIE MAUD GOSH,	*Watsontown.*
MARTHA ANDERSON GOLDY,	*Camden, N. J.*
IDA GERTRUDE GREENE,	*Saltillo.*
ELIZABETH HAWLEY,	*Northumberland.*
KATHERINE LOUISE HAZLEWOOD,	*Lewisburg.*
MRS. LINCOLN HULLEY,	*Lewisburg.*
KITTY ELIZA HUTCHINSON,	*Parkersburg, W. Va.*
MARY KOONCE,	*Lewisburg.*
ELIZABETH LLOYD,	*Phœnixville.*
FANNIE MARSH,	*Lewisburg.*
IDA MARSH,	*Lewisburg.*
MARY MATLACK,	*Lewisburg.*
MARGARET McCLEERY,	*Milton.*
HELEN McCORMICK,	*Milton.*
RHODA McKINNEY McNITT,	*Siglerville.*
WILLIAM CLAYTON NOLL,	*Lewisburg.*
BESSIE NESBIT,	*Lewisburg.*
CLEMENS REID,	*Milton.*
FRANCES MARY RUSH,	*Lewisburg.*
ELIZABETH SAUSTER,	*Watsontown.*
ANNIE SEASHOLTZ,	*Northumberland.*
ANNIE SARA SCHRACK,	*Mifflinburg.*
FLORENCE BERTHA SMITH,	*Lewisburg.*
MRS. ALBERT BURNS STEWART,	*Lewisburg.*
GEORGE ALEXANDER SPRATT,	*Coatesville.*
MARY BERNETTA SOBER,	*Lewisburg.*
NINA MAUDE VAN DYKE,	*Lewisburg.*
MARGARET WELLS,	*Wilmington, Del.*
BELL WHITMER,	*Sunbury.*
MARY WOLFE,	*Pottsgrove.*

CLASS IN ELOCUTION.

NAME.	RESIDENCE.
ELIZABETH TOWER BATES,	*Lewisburg.*
IDA ROSILLA BOWEN,	*Lewisburg.*
SYBIL WATSON DAUGHERTY,	*Sunbury.*
EMMA EEG,	*Lewisburg.*
NELLIE EDGAR,	*Sunbury.*

NAME.	ADDRESS.
MARY ELIZABETH HUTCHINSON,	*Parkersburg, W. Va.*
KITTY ELIZA HUTCHINSON,	*Parkersburg. W. Va.*
ANNA R. McDONALD,	*Lewisburg.*
LILLIE KATHERINE SCHRACK.	*Lewisburg.*

SUMMARY.

The Senior Year	16	
The Fourth Year	11	
The Third Year	13	
The Second Year	19	
The First Year	15	
Pursuing Select Studies	18	89
The School of Music	56	
The School of Art	43	
The Class in Elocution	4	
Not otherwise counted (Music, 18; Art, 26; Elocution, 4)		48
Total in Institute		137
In other Departments		189
Total in all Departments		326

Courses of Study.

The Bucknell Institute offers to young women three courses of study, each extending over five years. Students are admitted to advanced standing, if, upon examination, they are found to have a satisfactory knowledge of the branches which the class they propose to enter has already completed.

I. THE LITERARY COURSE.

The Literary Course embraces, in MATHEMATICS, Arithmetic, common and advanced, Algebra, and Geometry, plane and solid; in LATIN, two years required, and a third year elective with German; in GERMAN and FRENCH, one year each; and in ITALIAN and SPANISH, an optional course under the instruction of M. Elysée Aviragnet; in SCIENCE, Physical Geography, Botany, Astronomy, Physics, Physiology, Chemistry, and Geology. In these branches the students have the advantages afforded by the College Observatory, Laboratory and Museum. The course also includes Rhetoric, Composition, Civil Government, Psychology and Ethics.

Special attention is given to History and Literature, to the former of which six, and to the latter three, terms are devoted.

II. THE CLASSICAL COURSE.

The Classical Course embraces, in MATHEMATICS, Arithmetic, Algebra, Geometry, plane and solid, University Algebra and Trigonometry; in LATIN, Grammar and Composition, Cæsar, Vergil, Cicero's Orations, Cicero de Senectute et de Amicitia, Livy and Horace, in all, four years; in GREEK, Grammar and Composition, Xenophon's Anabasis, Homer's Iliad, Lysias' Orations, Herodotus, Homer's Odyssey, and the Greek Testament, in all, three years; in HISTORY, General History, and Greek and Roman History.

Students who complete the Classical Course are admitted to the Sophomore Class in College as candidates for the first degree in Arts.

III. THE LATIN SCIENTIFIC COURSE.

The Latin Scientific Course corresponds to the Classical Course, except that scientific studies are substituted for the first two years of Greek, and German for the third year of Greek.

Students who complete the Latin Scientific Course are admitted to the Sophomore Class in College as candidates for the first degree in Philosophy.

IV. THE ECLECTIC COURSE.

The Eclectic Course.—For those who do not intend to pursue a Regular Course of Study, but desire to select certain special branches, the Institute will, subject to necessary restrictions, provide such studies as they may elect and for which they show themselves qualified, but only in connection with the recitations of the regular classes.

Curricula.

I. THE LITERARY COURSE

First Year.

I. Term—	Arithmetic,	Wentworth,
	United States History,	Barnes,
	English Grammar,	Outlines and Exercises.
II. Term—	Arithmetic,	Wentworth,
	General History,	Barnes,
	English Grammar,	Outlines and Exercises.
III. Term—	Arithmetic,	Wentworth,
	General History,	Barnes,
	English Grammar,	Outlines and Exercises.

Second Year.

I. Term—	Latin—Lessons,	Bellum Helvetium,
	Grammar,	Allen and Greenough,
	Physical Geography,	Appleton,
	Higher Arithmetic,	Wentworth.
II. Term—	Latin—Lessons,	Bellum Helvetium,
	Grammar,	Allen and Greenough,
	History of Greece,	Smith,
	Book-Keeping,	Bryant.
III. Term—	Cæsar,	Kelsey,
	Rhetoric,	Hill's Elements,
	Botany,	Gray,
	History of Rome,	Smith.

Third Year.

I. Term—	Cæsar,	Kelsey,
	Algebra,	Wentworth,
	English History,	Guest.
II. Term—	Vergil,	Greenough,
	Algebra,	Sheldon,
	Astronomy,	Sharpless and Philips.
III. Term—	Vergil,	Greenough,
	Physics,	Sharpless and Philips,
	Physiology,	Walker.

Fourth Year.

I. Term—	Vergil, *or*	Greenough,
	German,	Wenckebach,
	Algebra,	Sheldon,
	Chemistry,	Eliot and Storer.

II. Term—Cicero, *and*	Allen and Greenough,
Latin Prose Composition, *or*	Collar,
German,	Wenckebach,
Geometry,	Wentworth,
Civil Government,	Cocker.
III. Term—Cicero, *or*	Allen and Greenough,
German, *and*	Wenckebach,
German Composition,	Harris,
Geometry,	Wentworth,
Geology,	Le Conte.

Senior Year.

I. Term—Psychology,	McCosh,
English Literature,	Outlines,
English Classics,	
French, *or*	
German,	Die Jungfrau von Orleans.
II. Term—English Literature,	Outlines,
English Classics,	
Solid Geometry,	Wentworth,
French, *or*	
German,	Wilhelm Tell.
III. Term—Ethics,	Hopkins,
American Literature,	Outlines,
American Classics,	
French, *or*	
German,	Hermann und Dorothea.

II. THE CLASSICAL COURSE.

First Year.

I. Term—Arithmetic,	Wentworth,
United States History,	Montgomery,
English Grammar,	Outlines and Exercises.
II. Term—Arithmetic,	Wentworth,
General History,	Barnes,
English Grammar,	Outlines and Exercises.
III. Term.—Arithmetic,	Wentworth,
General History,	Barnes,
English Grammar,	Outlines and Exercises.

Second Year.

I. Term—Latin—Lessons,	Bellum Helvetium,
Grammar,	Allen and Greenough,
Physical Geography,	Appleton,
Higher Arithmetic,	Wentworth.
II. Term—Latin—Lessons,	Bellum Helvetium.
Grammar,	Allen and Greenough,
History of Greece,	Smith,
Book-Keeping,	Bryant.

III. Term—Cæsar's Commentaries,	Kelsey,
Rhetoric,	Hill's Elements,
Elementary Botany,	Gray,
History of Rome,	Smith.

Third Year.

I. Term—Algebra,	Sheldon,
Cæsar's Commentaries,	Kelsey,
Greek—Lessons,	Boise and Pattengill,
Grammar,	Hadley-Allen.
II. Term—Algebra,	Sheldon,
Vergil's Æneid,	Greenough,
Greek—Lessons,	Boise and Pattengill,
Grammar,	Hadley-Allen.
III. Term—Natural Philosophy,	Sharpless and Philips,
Vergil's Æneid,	Greenough,
Xenophon's Anabasis,	Kelsey.

Fourth Year.

I. Term—Algebra Quadratics,	Sheldon,
Latin—Vergil's Æneid,	Greenough,
Prosody,	Allen and Greenough,
Xenophon's Anabasis,	Kelsey.
II. Term—Plane Geometry,	Wentworth,
Latin—Cicero's Orations,	Allen and Greenough,
Prose Composition,	Collar,
Homer's Iliad,	Seymour.
III. Term—Plane Geometry,	Wentworth,
Cicero's Orations,	Allen and Greenough,
Greek—Homer's Iliad,	Seymour,
Prose Composition,	Jones.

Senior Year.

I. Term—Geometry and Conic Sections,	Practical Ethics,
Cicero de Senectute et de Am.,	Hygiene,
Lysias' Orations,	Elocution,
Greek Prose Composition,	English Composition,
Lectures on the Essay.	
II. Term - Algebra,	Roman Antiquities,
Livy,	Elocution,
Herodotus or Thucydides,	English Composition.
Greek Testament.	
III. Term—Trigonometry,	Linear Perspective,
Horace,	Elocution,
Odyssey,	Composition.
Greek Testament,	

III. THE LATIN SCIENTIFIC COURSE.

First Year.

I. Term—Arithmetic,	Wentworth,
United States History,	Montgomery,
English Grammar,	Outlines and Exercises.
II. Term—Arithmetic,	Wentworth,
General History,	Barnes,
English Grammar,	Outlines and Exercises.
III. Term—Arithmetic,	Wentworth,
General History,	Barnes,
English Grammar,	Outlines and Exercises.

Second Year.

I. Term—Latin—Lessons,	Bellum Helvetium,
Grammar,	Allen and Greenough,
Physical Geography,	Appleton,
Higher Arithmetic,	Wentworth.
II. Term—Latin—Lessons,	Bellum Helvetium,
Grammar,	Allen and Greenough,
History of Greece,	Smith,
Book-Keeping,	Bryant.
III. Term—Cæsar,	Kelsey,
Rhetoric,	Hill's Elements,
Elementary Botany,	Gray,
History of Rome,	Smith.

Third Year.

I. Term—Cæsar's Commentaries,	Kelsey,
Algebra,	Sheldon,
English History,	Guest.
II. Term—Algebra,	Sheldon,
Vergil's Æneid,	Greenough,
Astronomy,	Sharpless and Philips.
III. Term—Natural Philosophy,	Sharpless and Philips,
Vergil's Æneid,	Greenough,
Physiology,	Walker.

Fourth Year.

I. Term—Algebra, Quadratics,	Sheldon,
Latin—Vergil's Æneid,	Greenough,
Prosody,	Allen and Greenough,
English Literature,	Outlines.
II. Term—Plane Geometry,	Wentworth,
Latin—Cicero's Orations,	Allen and Greenough,
Prose Composition,	Collar,
Civil Government,	Johnston.
III. Term—Plane Geometry,	Wentworth,
Cicero's Orations,	Allen and Greenough,
Geology,	Le Conte.

Senior Year.

I. Term—	Geometry and Conic Sections,	Practical Ethics,
	Cicero de Senectute et de Am.,	Hygiene,
	German,	Elocution,
	Lectures on the. Essay,	English Composition.
II. Term—	Algebra,	Roman Antiquities,
	German,	Elocution,
	Livy,	English Composition.
III. Term—	Trigonometry,	Linear Perspective,
	Horace,	Elocution,
	German,	English Composition.

The Methods of Instruction.

I. PSYCHOLOGY AND ETHICS.

Psychology is taught by a text-book and informal lectures. The relation of Psychology to education is made a special feature. "McCosh's Cognitive Powers" is made the basis of instruction.

The aim in the course in Ethics is to make the instruction as practical as possible. Hopkins' work on Ethics is used as a text-book.

II. ENGLISH.

I. **English Grammar.** The aim is to enable the pupils to speak and write the English language with accuracy and force. No text-book is used, the instruction being suggestive and inductive.

II. **Rhetoric** is taught as a practical aid to English Composition, Daily exercises in the various processes of Composition are required.

III. **History.** Six terms are devoted to this study. The text-book is supplemented by the topical method. Efforts are made to convince the learner that History is not mere facts in chronological order, but a record of the development of civilization.

IV. **English Literature** is taught by topical outlines, the elaboration of which depends upon a critical study of the master-pieces in English Literature, in connection with the lives and times of the writers. The books required for this work are found in the Institute Library.

The chief object in the course is to imbue each student with an ardent desire *to know* and *to value* the best thoughts of the greatest minds; and to clearly comprehend the relation of these thoughts to English Literature and the English race.

III. LATIN.

The method employed with beginners is the Inductive, the text of "Bellum Helvetium" being used as presenting a model of perfect Latin. Paradigms of Declension and Conjugation, with the principles of Syntax are introduced gradually, after many illustrations. The same text is made the basis of English sentences to be written in Latin, readiness in Latin Composition and a correct style being thus produced.

IV. THE MODERN LANGUAGES.

1. French, Italian and Spanish.

The Modern Languages are taught by comparing them with the maternal tongue of the pupil, if there be a relation between them. If there is none, it is compared with the Latin and Greek Languages. In French, rules are taught by which the words which are not exactly the same in the two languages are easily made French.

French Syntax is taught by examples and illustrations from readings. The grammar is taught by the language, and not the language by the grammar. Dictation exercises are given from "Whitney's Practical French."

As far as practical, French only is spoken in the class-room. Extracts are read from the best French Literature. Conversations are held in French on the readings, stories are related and compositions prepared in French by the pupil.

The aim is to teach the Modern Languages so that they can be spoken correctly.

The same method is used in teaching Spanish and Italian.

2. German.

In the study of German, the aim is to acquire a sufficient knowledge of the grammar and such a vocabulary as will conduce to facility in reading. As little English as practicable is used in the class-room, the rules after frequent illustration, being learned in the German Language. The committing to memory of poems, object lessons, and conversations on the text used, form the work of the first year ; the reading of German Classics and German Compositions are included in the second year's course.

V. MATHEMATICS.

Arithmetic.—The subject is taught primarily with the object of making practical arithmeticians. The minds of the pupils are kept free from set rules, formulas, and mechanical processes, while independent thought and logical analysis are daily required.

Algebra.—Three terms are given to this subject. There is thorough drill in the fundamental operations, and the idea that these are simply the application of arithmetical processes to symbols of general value, is kept constantly in mind. The course includes Quadratic Equations, Theory of Exponents, Variation and Series.

Geometry.—The course includes Plane and Solid Geometry. Besides the demonstrations of theorems given in the text-book, original demonstrations and the solution of problems are required.

VI. ELOCUTION.

This department is open to all members of the Institute. Its aim is the correct and effective utterance of thought ; special attention is given to Voice Culture, Articulation, including Pronunciation and Expression. Weekly Rhetoricals in Bucknell Hall, afford ample opportunity for platform work. Bible Reading and the study of Shakespeare have places in the course.

VII. PHYSICAL CULTURE.

The class in Physical Culture is organized for the benefit of all students. The exercises practiced are such as tend to the acquirement of grace and strength. The Jenness-Miller movements have been lately introduced.

RELIGIOUS SERVICES.

The morning Chapel Exercises are attended at 8.15 in Bucknell Hall in common with the members of the other departments.

Attendance upon Sabbath-school and Church services in town is required.

The Young Women's Christian Association, composed of the officers and students of the Institute, meets on the second Sunday and Thursday of each month.

The regular Tuesday evening prayer-meeting, conducted by the ladies, with other devotional meetings, also missionary and temperance work, are in charge of this Association.

Bible Study —Regular weekly recitations in Bible study are required of all. The Students have organized several special classes for Scripture study.

DRAWING AND PAINTING.

Exercises in Free-hand Drawing are required of all students except Seniors.

The facilities for the study of art have been greatly enhanced by the accommodations allotted to this Department, in a special studio, which provides a spacious room with such adjustments for admission of light and supply of unencumbered wall surfaces as render it precisely adapted for the execution and display of art productions. Provision is made for a thorough course of instruction in Drawing, Painting, and all forms of Art Decoration, including :

Drawing from Life ; Sketches from Nature ; Object Drawing ; Cast Drawing ; Perspective ; Painting from Life ; Landscape Painting ; Painting in Water Colors ; China Decoration, Tapestry Dyeing, and Pastel Painting.

Extra tuition is charged for instruction in Art, as follows :

	Per Annum.
Drawing	$24 00
Crayoning	33 00
Painting in Oil, Water Colors, *or* on China	60 00
Use of Studies for Decorative Work	3 00
	Per Lesson.
Special individual instruction in Painting	1 00

METHOD OF INSTRUCTION IN THE STUDIO.

Pupils who take the regular course, begin by drawing from solid geometrical forms, thus learning the laws of proportion, and the relations of light and shade.

The aim is to impart such knowledge of the principles and practice of art as shall enable the pupil to do intelligent work.

Pupils whose interest is in Decorative work, are given the requisite instruction and assistance.

Free Hand Drawing is a part of the required work of the School, and is taught in the class room to all students except the Seniors.

SPECIAL BRANCHES.

Shorthand, Telegraphy, and Type-Writing, as special electives, are open to all students, for which a light additional charge is made.

Italian and Spanish may be taken as optional studies, under the instruction of M. Elysée Aviragnet.

All optional studies must be pursued in connection with the regular classes.

ELOCUTION AND GENERAL CLASS EXERCISES.

Exercises in Spelling are required of all students except Seniors.

Bible instruction is given once a week throughout the entire course.

Monthly Essays are required of all students.

Two Declamations are required of each student during each Term.

Exercises in Elocution are required once a week of all classes. The text-book is Shoemaker's Practical Elocution, and the course of instruction includes :

Voice culture ; Modulation ; Analytical Reading ; Articulation—Phonetics; Expression—Gesture, and the study of Shakespeare.

Special individual instruction in Elocution is offered at fifty cents a lesson.

PUBLIC EXERCISES.

The Exercises of the Graduating Class, held in Commencement Hall form the closing exercises of the Institute. This year they will be held June 23d.

The Exercises of the Fourth Year Class.—Of special interest in the calendar of the Institute are the Exercises of the Fourth Year Class, being a combined musical and literary entertainment held in Bucknell Hall. Three Prizes are then contended for : two of them in composition, between members of the Fourth Year Class ; the other in Elocution, between all the members of the Institute. These exercises will take place this year Saturday evening, May 9th.

ALUMNÆ AND OTHER SOCIETIES.

The Alumnæ Association holds its anniversary during Commencement Week. The date for 1891 is June 22d

During Commencement Week, as far as the accommodations will permit, Alumnæ who take part in the Anniversary will be entertained at the Institute.

The Lewisburg Alumnæ Club meets at the Institute on the second Tuesday evening of each month during term time, at 7 o'clock.

The Students' Loan Society meets in the parlors of the Institute on the first Tuesday morning after the opening of each term, at 9 o'clock.

The annual meeting for the election of officers is held at the Institute on Monday of Commencement Week immediately after the Business Meeting of the Alumnæ.

All contributions to the Society should be sent to the Treasurer, Mrs. T. H. Purdy, Sunbury, Pa.

Music Institute.

The Music Institute is under the special charge of a French artist, whose musical education was received at the Conservatory of Music in Paris, and who has had a large and successful experience in teaching. He is supported by competent assistants, and the course is designed to afford every needed facility for the study of Vocal and Instrumental Music. An ample supply of pianos from the best makers is provided for practice, including a Concert Grand.

INSTRUMENTAL MUSIC.

Course for the Piano-Forte of Four Years for Graduation.

The pupil is required to pursue the most thoroughly approved modern system of technical training. After the first rudiments have been mastered, the course of instruction leads to the practice of *etudes*, designed to unite with purely technical drill the acquirement of artistic style and expression.

PIANO.

First Year.

New England Conservatory Method, 1 and 2 parts; LeCouppey Ecole du Méchanisme; Duvernoy Ecole du Méchanisme, books 1, 2 and 3; Kohler, op. 157; Czerny, fifty studies from op. 261, 821, 599 and 139 ed. of Henrich Germer; Meyer, progressive and melodious studies; Robert Sutton's "The Elements of the Theory of Music;" Brown, Musical Biographies of Composers.

Second Year.

Plaidy, Technical Studies; Czerny, Polyrythmic Studies from op. 139, 834, 335 and 299; Czerny, Studies of Ornamentation from op. 355 and 833; Czerny, twelve Studies from op. 299 and 740; Czerny, thirty Studies from op. 299 and 834 (Henrich Germer Edition); Heller, Expression and Rhythm, op. 125; Kullak, Preparatory Octave Studies; Rockstro, Practical Harmony; Rockstro, A History of Music.

Third Year.

Clementi "Gradus ad Parnassum;" Tausig, Daily Studies; Kohler, op. 112; Cramer Studies, books 1, 2 and 3; Czerny, thirty-six Octave Studies from op. 821, 335, 740 and 834 (Henrich German Adition); Richter, Harmony; Dr. Marx, Universal School of Music.

Fourth Year

R. Joseffy, Daily Studies; Czerny, twenty Studies from op. 335; Czerny, nineteen Studies from op. 740; Czerny, Toccata, op. 92 (Henrich Germer Edition); Kullak, Octave Studies; Chopin, Studies; Liszt, Studies; T. Bach, Well Tempered Clavichord (preludes et fugues); Kullak, Art of Touch; Richter, Counterpoint; Reicha, Course of Musical Composition.

During the four years, selected studies from Bertini, Rosellen, Moscheles, Herz Thalberg are also given to the pupils.

That the æsthetic development may be proportionately secured, the above exercises are supplemented by the study of works of the best composers.

Course for Pipe Organ.

The course is based upon:

F. Schneider's Practical Organ School, Thayer, Dudley Buck Pedal Studies, and upon works of Rink, Batiste, Lefébure–Wely, etc., etc.

Course for the Violin.

This course is based upon:

Dancla's School of Mechanism; De Beriot's Violinist's First Guide; Fiorillo's Studies; Alard's Studies; Kreutzer's Studies, etc., with selections from the compositions of the best writers for this instrument.

Course for the Violoncello.

Instruction for this instrument is based upon:

Méthode Pratique pour le Violoncello par S. Lee.

Course for Viola.

Bruni's Method and Studies.

Course for Contrebasse. (Double Bass.)

Bottesini's Method.

THE ORCHESTRA.

Classes for all Orchestral Instruments.

Students who are sufficiently advanced in any of the above musical instruments will have opportunity of practice in string quartette, trios, concertos, and the orchestra. The latter furnishes the music for the public entertainments of the Institute.

VOICE CULTURE.

Course of Three Years for Graduation.

Careful instruction is given in the use of the voice, and the correct manner of producing purity of tone. To secure control over the voice and gain for it flexibility, fullness and durability, thorough drill is afforded in such technical exercises as:

Lamperti's Italian Method; Ciro Pinsuti's Daily Exercises; the Vocalises of Rossini, Marchesi, Bordogni, Ronconi and Concone; Duprez's L'art du chant; Lamperti's Studies in Bravura Singing. For expression and the development of a pure style practice is afforded in singing the best English, German, Italian, and French Songs, Operatic Arias, and Solos from the Oratorios.

COURSE IN HARMONY.

It is urgently recommended that the study of Harmony be included with other Musical work, inasmuch as a sound knowledge of its principles is essential to the success of all vocalists and instrumentalists. The text-books used are:

Rockstro's Practical Harmony; Richter's Counterpoint, Reicha's Course of Musical Composition.

Extra tuition is charged for instruction in Music, as follows:

Advanced Classes.

	Per Annum.
Vocal Music	$60 00
Music on Piano, *or* Organ	60 00
Harmony	18 00
Use of Instrument for practice	10 00

Preparatory Classes.

	Per Annum.
Vocal Music	$45 00
Music on Piano, *or* Organ	45 00
Harmony	12 00
Use of Instrument for practice	10 00
	Per Lesson.
Special individual instruction in Music	$1 00

No reduction will be made except in case of protracted illness.

Instruction in the Orchestra and in Harmony is free to pupils otherwise studying music.

General Information.

ADMINISTRATIVE AND OTHER REGULATIONS.

The rules of the Institute are few and simple and such as contemplate relations with those only whose purpose it is to conform to reasonable laws.

Parents should not seek to direct the movements of their daughters in such particulars as interfere with the regulations of the Institute, which regulations during term time are expected to prevail.

The following are selections from the regulations:

1. No student is allowed to leave the Institute grounds at any time without permission from the Principal.

2. Unless for reasons very satisfactory, students from a distance are not permitted to visit their homes, or to leave the Institute to visit with relatives or friends in the town.

3. None but near relatives and friends from a distance are allowed to visit with boarding students, and such visits must be so arranged as not to interfere with the regular hours of study and recitation.

4. Students are not at liberty to invite guests to their private apartments, or to any part of the building, without permission from the Principal.

5. Teachers and students take their meals at the same table, and no special article of food is served to any one except in case of sickness.

6. Parents and guardians are particularly requested to refrain from furnishing their daughters and wards with *eatables of any kind*, except fruit.

7. Patrons visiting young ladies at the Institute may be accommodated with board at one dollar a day, if there are vacant rooms. In no case will students be required to give up their rooms to visitors. It is expected that all visitors will conform to the general regulations of the Institution.

8. Regular and systematic exercise, both in the open air and in the Gymnasium, is required of each student.

9. In the Regular Course, the number of daily recitations is fixed. Special students are required to engage in such a number as may, in the judgment of the Principal, be sufficient to occupy their time.

10. The character of each recitation is recorded at the time, and the result, together with a statement of the general industry and deportment of the student, sent to the parent or guardian at the close of the Term.

11. The passing grade in any study is a definite one, and must be attained before promotion can be secured.

12. No room will be reserved for a student unless definitely engaged.

13. The books and current periodicals of the College and Institute Libraries are available for all students.

ARTICLES REQUIRED.

Each student should be provided with an umbrella, water-proof, overshoes, table napkins, towels, covers for bureau and washstand, counterpanes, sheets and pillow-cases; size of pillow, twenty by thirty inches; bureau, forty-three by nineteen inches; washstand, thirty-two by sixteen inches.

Every article of clothing should be marked with the owner's name in full.

It is especially desired that the dress of pupils shall be simple and inexpensive. Whenever practicable, the wardrobe should be prepared at home, to avoid the necessity of frequent visits to town.

AIDS AND PRIZES.

The Students' Loan Society, organized June, 1887, will give aid to as many students of the Institute as possible. Applications for aid should be made to the President, Mrs. Katherine B. Larison, Lewisburg, Pa.

The Bucknell Prizes.

The following prizes have been founded by the late William Bucknell, of Philadelphia:

1. A First Senior Prize, to be awarded to the member of the graduating class who, being excellent in scholarship during the Senior Year, shall prepare the best graduating essay.

2. A Second Senior Prize, to be awarded to the member of the graduating class who, being excellent in scholarship during the Senior Year, shall prepare the second best graduating essay.

For the year 1890, the First Prize of twenty-four dollars was awarded to Ella Corle Church; and the Second Prize of sixteen dollars to Bertha Bartgess Wagner.

3. A Third Senior Prize, to be awarded to the member of the graduating class who shall attain the highest grade in the studies of the Senior Year. This excludes all grades for studies not in the Senior Year, all Senior studies taken before the Senior Year, and all studies not taken in the University.

For the year 1890, this Prize of twenty-five dollars was awarded to Carrie Vanderslice Lloyd.

4. A First Fourth Year Prize, to be awarded to the member of the Fourth Year Class who, being excellent in scholarship during the year, shall prepare the best Fourth Year essay.

5. A Second Fourth Year Prize, to be awarded to the member of the Fourth Year Class who, being excellent in scholarship during the year, shall prepare the second best Fourth Year essay.

For the year 1890, these prizes were awarded as follows: Mary Moore Wolfe received the First Prize of twenty dollars; Annie May Austin, the Second Prize of fifteen dollars.

The Fund consists of $2,000, the income from which is to be devoted to these Prizes annually in a manner more particularly defined in the donor's communication to the Trustees.

The Lippincott Prize,

An award of fifty dollars, has been offered by Mr. Craig Lippincott, to the student who proves, on examination, to have the best command of the English Language, and the most thorough knowledge of British and American Literature. For the year 1890, this Prize was awarded to Annie Eaby Sellers.

The Elocution Prize.

A Prize in Elocution is offered to that student who shall give the best recitation at the Annual Contest.

For 1890, the Prize was awarded to Katherine Sweet.

The Aviragnet Prizes.

Professor Elysée Aviragnet has established two prizes, as follows:

Music.

A prize of ten dollars for excellence in Music.
For 1890, this Prize was awarded to Alice Grace Bush.

French.

A prize of ten dollars for excellence in French.
For 1890, this Prize was awarded to Alice May Lyman.

SCHOLARSHIPS

Free Scholarships, covering tuition, are awarded to children of ministers of the Gospel, *in actual service.*

All candidates for Aids or Prizes must attain the required standard in conduct.

EXPENSES.

I. **Boarding Students.**—The regular charges for Boarding Students are $225.00 per annum; the other expenses, spending-money, books and clothing, are at the option of the individual student.

Boarding Students are charged extra for the washing of dresses, and for more than twelve pieces per week.

The rooms in the Annex are rented in suites, for which there is an extra charge, depending on the location.

	Per Annum.
Suite on the first floor	$30 00
Suite on the second floor	34 00
Suite on the third floor	28 00

Each suite contains a study and two sleeping apartments, and has accommodations for, and will be occupied by, four persons, and the charge will be accordingly divided.

If a student arranges to occupy one of the large rooms, in the South Hall of the main building, by herself, room-rent will be charged.

Students will be charged for damage done to furniture or to the room they occupy.

II. **Day Students.**—The charges for Day Students amount to fifty dollars per annum, and are apportioned as follows:

	Per Annum.
Tuition	$36 00
Incidentals, etc	14 00
	$50 00

III. **Extra Studies.**—The charges for the same are enumerated under Elocution, Drawing and Painting, and Music.

Bills are payable *strictly in advance;* or by the 15th of September, January, and April. Checks and drafts should be drawn in favor of the Registrar of the University.

No bill will be made out for a shorter period than one term; and no deductions will be made except in the charge for board, in case of a prolonged absence on account of sickness.

The expenses for Music, Printing, and other charges ordinarily incurred at Examinations and on Anniversary occasions, are paid by the class or classes for which such expenses are incurred.

When music is furnished by the Institute Orchestra for public exercises, no charge is made.

The fee for Graduation and Diploma is five dollars.

For information respecting the Institute, address the Principal, Mrs. Katherine B. Larison, A.M., or the President of the University, John H. Harris, Ph.D.

Railroad Directory.

P. & R.—The Shamokin, Sunbury and Lewisburg Division of the Philadelphia and Reading Railroad now passes through Lewisburg. Passengers from Philadelphia take a through car at the Broad and Callowhill Station, either in the morning or evening. Roads tributary to the main line of the Reading connect with these trains at West Falls, Reading, Tamaqua, Mahanoy Junction, and Shamokin. Passengers on the line of the Catawissa Railroad can connect with trains for Lewisburg at West Milton.

P. & E.—The Philadelphia and Erie Railroad runs within one and a half miles of Lewisburg. Persons coming to Lewisburg stop at Montandon. From that place the Lewisburg and Tyrone Railroad runs through Lewisburg, and trains on this road make connections with the Philadelphia and Erie Railroad.

Most of the following trains run through from the points named below without change of cars :

Three trains daily from Philadelphia, Baltimore, Pittsburg, Buffalo, Elmira, and Williamsport, two from New York, *via* Harrisburg or Scranton ; and one from Erie.

Penna. R. R.—Passengers from Pittsburg and other points on the Pennsylvania Railroad can reach Lewisburg *via* Tyrone and Lock Haven, or *via* Tyrone and Bellefonte, or *via* Lewistown and Sunbury, or *via* Harrisburg and Montandon, according as they are located on the line.

D. L. & W.—The Lackawanna and Bloomsburg Railroad connects with the Philadelphia and Erie Railroad at Northumberland.

The above trains connect at all intermediate points. All of the above roads have fast express trains passing through Lewisburg.

University Calendar

1891-92.

Celebration of Washington's Birthday.....Monday, February 23d, 1891.
Second Term ends.....Wednesday, March 25th, 1891.

SPRING RECESS OF ONE WEEK.

Third Term (of twelve weeks) begins.....Thursday, April 2d, 1891.
Sermon before the Y. M. C. Association.....Sunday, April 12th, 1891.
Declamations of the Third Form, Academy.....Saturday, April 25th, 1891.
Exercise of the Fourth Year Class, Institute.....Saturday, May 9th, 1891.
Exhibition of the Junior Class, College.....Friday, May 15th, 1891.
Examinations of the Senior Class, College.....Wednesday, June 3d, 1891.
Other Examinations.....Thursday to Saturday, June 18th to 20th, 1891.
Baccalaureate Sermon.....Sunday, June 21st, 1891.
Sermon before the Education Society.....Sunday, June 21st, 1891.
Examinations for Admission to College.....Monday, June 22d, 1891.
Meeting of the Alumnæ of the Institute .....Monday, June 22d, 1891.
Oration before the Literary Societies.....Monday, June 22d, 1891.
Annual Meeting of the Trustees.....Tuesday, June 23d, 1891.
Annual Meeting of the Alumni.....Tuesday, June 23d, 1891.
Exhibition of the Fourth Form, Academy.....Tuesday, June 23d, 1891.
Graduating Exercises of the Institute .....Tuesday, June 23d, 1891.
Oration before the Alumni.....Tuesday, June 23d, 1891.
Annual Commencement, The 41st.....Wednesday, June 24th, 1891.

VACATION OF ELEVEN WEEKS.

Examinations for Admission to College..... Wednesday, September 9th, 1891.
First Term (of fourteen weeks) begins.....Thursday, September 10th, 1891.
Thanksgiving (recess of three days).....Thursday, November 26th, 1891.
First Term ends.....Wednesday, December 16th, 1891.

HOLIDAY RECESS OF TWO WEEKS

Second Term (of twelve weeks) begins.....Thursday, January 7th, 1892.
Day of Prayer for Colleges.....Thursday, January 28th, 1892.
Second Term ends.....Friday, March 25th, 1892.

SPRING RECESS OF ONE WEEK.

Third Term (of twelve weeks) begins.....Tuesday, April 5th, 1892.
Sermon before the Y. M. C. Associations.....Sunday, April 10th, 1892.
Third Term ends.....Wednesday, June 22d, 1892.

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